

Zool.

543br

24.

ol.

362

(24

Walker

LIST

OF

THE

LIBRARY

OF

THE

UNIVERSITY

OF

OXFORD

1851

LIST
OF THE
SPECIMENS
OF
LEPIDOPTEROUS INSECTS
IN
THE COLLECTION
OF THE
BRITISH MUSEUM.

BY
FRANCIS WALKER, F.L.S., &c.

PART XXIV.—GEOMETRITES.

(CONTINUED).

PRINTED BY ORDER OF THE TRUSTEES.
LONDON, 1862.



LONDON:

PRINTED BY EDWARD NEWMAN,
9, Devonshire Street, Bishopsgate.

P R E F A C E .

THE object of the present Catalogue is to give a complete list of all the genera and species of Geometrites known to exist in the different collections. The letters *a, b, c, &c.*, after the species, denote the specimens now contained in the British Museum, followed by the *habitat* and the mode in which each of them was obtained, and the absence of these *letters* indicates the species which are desiderata, and therefore desirable to be procured for the collection.

JOHN EDWARD GRAY.

British Museum,

February 20, 1862.

ERRATA IN PART XXIV.

Page 1252, line 5, for The specimens here mentioned do, read
The specimen here mentioned does.

Page 1257, dele Acasis lobulata, Dup. Lep. v. 493, pl. 205, f. 4.

„ 1259, line 7, for border read band.

CATALOGUE
OF
LEPIDOPTERA HETEROCERA.

FIFTH SERIES.

Fam. 15. FIDONIDÆ.

(Continued).

Genus 19. SCODIONA.

Corpus villosum, sæpe robustum. Frons lanuginosa, sat plana. Proboscis brevissima. Palpi brevissimi, conici, disjuncti. Thorax quadratus, convexus. Abdomen carinatum, lateribus villosis. Alæ spissæ, rotundatæ, integræ, velutinæ, conspersæ; anticæ linea exteriori punctulari punctoque discali. *Mas.*—Antennæ pectinatæ, ramis validis æqualibus. *Fæm.*—Minor, crassior.

Dyscia et *Psednothrix*, *Hubn. Verz. Schm.* 314, 320.

Fidonia, p., *Treit.*; *Dup.*

Scodiona, *Boisd. Ind.* 185; *Herr.-Sch.*; *Guen. Phal.* ii. 139.

Mæsia, *Steph.*

Scodiona et *Enconista*, *Lederer.*

Body pilose, often robust. Front lanuginous, not tufted, rather flat. Proboscis very short. Palpi conical, very short, separate from each other. Thorax quadrate, convex. Abdomen keeled, villose along each side. Legs moderately long. Wings stout, rounded, entire, velvety, speckled; fringe long, full. Fore wings with the exterior line generally represented by points. Hind wings much paler beneath than the fore wings. *Male.*—Antennæ pectinated to the tips; branches stout, regular, not plumose. *Female.*—Smaller and thicker than the male.

Europe.

1. SCODIONA TURTURARIA.

Albida ; alæ subconspersæ, litura discali lineaque exterior punctulari nigris, margine cinereo ; anticæ gutta postica nigra.

Scodiona turturaria, Dup. *Boisd. Ind.* 185, 1465. *Guen. Phal.* ii. 140, 1149.

Fidonia conspersaria, Dup. *Lep.* iv. 454, pl. 168, f. 4.

Maritime Alps.

2. SCODIONA CONSPERSARIA.

Canescens ; alæ conspersæ, puncto discali lineaque exterior punctulari nigricantibus ; anticæ linea interior punctulari.

———, *Vill. Ent. Linn.* iv. 496.

Geometra conspersaria, *Wien. Verz.* 106, 8. *Bork. Eur. Schm.* v. 243, 104. *Hubn. Geom.* pl. 26, f. 138.

Phalæna conspersaria, *Fabr. Ent. Syst.* iii. 2, 142, 49.

Fidonia conspersaria, *Treit. Schm.* vi. 1, 299, 21. *Eversm. Faun. Volg.-Ural.* 390.

Dyscia conspersaria, *Hubn. Verz. Schm.* 314, 3031.

Scodiona conspersaria, *Boisd. Ind.* 185, 1464. *Herr.-Sch. Eur. Schm.* iii. 65, 166. *Guen. Phal.* ii. 141, 1150.

Germany. Hungary. Dalmatia. Russia.

3. SCODIONA LENTISCARIA.

Ochraceo-cinerea, robusta ; alæ lineis duabus punctularibus, litura discali fusca subocellari, venis fimbriaque ochraceis.

Crocallis lentiscaria, *Donz. Ann. Soc. Ent. Fr.* vi. 13, pl. 1, f. 1, 2.

Scodiona lentiscaria, Dup. *Lep. Sup.* iv. 17, pl. 52, f. 1. *Boisd. Ind.* 185, 1466. *Herr.-Sch. Eur. Schm.* iii. 66, 169. *Guen. Phal.* ii. 141, 1151.

South France.

4. SCODIONA EMUCIDARIA.

Cinereo-albida ; alæ litura discali elongata nigra ; anticæ lineola subcostali subapicali e punctis tribus nigris.

Geometra emucidaria, *Hubn. Geom.* f. 425.

Dyscia emucidaria, *Hubn. Verz. Schm.* 314, 3032.

Scodiona emucidaria, *Dup. Lep.* iv. 450, pl. 168, f. 2. *Boisd. Ind.* 185, 1467. *Herr.-Sch. Eur. Schm.* iii. 65, 167, pl. 36, 37, f. 223—225. *Guen. Phal.* ii. 141, 1152.

South France.

5. SCODIONA BELGIARIA.

Testaceo-cinerea ; alæ lineis media et exterioribus fuscescentibus diffusis subundulatis, punctis marginalibus nigris ; anticæ linea interiore diffusa.

Geometra belgiaria, *Hubn. Geom.* pl. 26, f. 140. *Bork. Eur. Schm.* v. 196, 80.

Geometra favillacea, *Hubn. Geom.* pl. 26, f. 139. *Haw. Lep. Brit.* 278.

Phalæna belgiaria, *Fabr. Ent. Syst. Sup.* 451, 62, 63.

Fidonia favillacea, *Treit. Schm.* vi. 1, 297, 20. *Dup. Lep.* iv. 448, pl. 168, f. 1. *Curt. Brit. Ent.* pl. 33.

Psednothrix belgicaria, *Hubn. Verz. Schm.* 320, 3082.

Psednothrix favillacea, *Hubn. Verz. Schm.* 320, 3084.

Mæsia favillacea, *Steph. Ill. Brit. Haust.* iii. 150, 1.

Scodiona favillacea, *Boisd. Ind.* 185, 1468. *Herr.-Sch. Eur. Schm.* iii. 65, 165, pl. 8, f. 47.

Scodiona mediopunctaria, *Donz. Ann. Soc. Ent. Fr.* xiii. pl. 461, f. 1.

Scodiona belgiaria, *Guen. Phal.* ii. 142, 1153.

a. England. Presented by J. C. Dale, Esq.

b—r. England. From Mr. Stephens' collection.

s—u. England.

6. SCODIONA? PENULATARIA.

Cervino-cinerea aut obscure fusca ; alæ nigro conspersæ, gutta discali lineaque exterior arcuata denticulata nigris ; anticæ linea interiore nigra, linea exterior postice incrassata.

Geometra penulataria, *Hubn. Geom.* f. 507, 508.

Psednothrix penulataria, *Hubn. Verz. Schm.* 320, 3083.

Scodiona? penulataria, *Guen. Phal.* ii. 142, 1154.

Germany?

7. SCODIONA PERSPERSARIA.

Flavescente-cinerea (mas) aut *cinerea* (fœm.) ; *alæ nigro conspersæ, puncto discali nigro ; anticæ lineis quatuor indeterminatis nigris, 3a 4a exterioribus undulatis.*

Fidonia perspersaria, Dup. Lep. iv. 458, pl. 169, f. 1, 2. Treit. Suppl. 102.

Scodiona perspersaria, Boisd. Ind. 185, 1469. Herr.-Sch. Eur. Schm. iii. 67, 170, pl. 10, f. 54—56. Guen. Phal. ii. 143, 1156.

South France.

8. SCODIONA AGARITHARIA.

Pallide cinerea ; alæ nigro subconsersæ, puncto discali nigro ; anticæ linea exterior undulata nigricante ; posticæ albidæ.

Numeria agaritharia, Dardouin, Ann. Soc. Ent. Fr. xi. 201, pl. 8, f. 3, 4.

Scodiona agaritharia, Herr.-Sch. Eur. Schm. iii. 68, pl. 8, f. 44 ; pl. 43, f. 261. Guen. Phal. ii. 143, 1157.

South France.

9. SCODIONA MINIOSARIA.

Mas. *Rufescente-cinerea ; alæ litura discali nigra ; anticæ lineis tribus denticulatis lituraque media costali nigris ; posticæ cinereæ, fascia exterior diffusa fuscescente.*

Boarmia miniosaria, Dup. Lep. iv. 368, pl. 160, f. 4.

Fidonia miniosaria, Boisd. Ind. 190, 1503.

Selidosema miniosaria, Guen. Phal. ii. 149, 1167.

Scodiona miniosaria, Guen. Phal. ii, 543.

Pyrenees.

Africa.

10. SCODIONA INSPERSARIA.

Mas. *Flavescente-testacea ; alæ subconsersæ, puncto discali nigro, umbra submarginali fuscescente interrupta.*

Scodiona inspersaria, Guen. Phal. ii. 142, 1155.

Caffraria.

Australia.

11. SCODIONA MILVARIA.

Rufescente-testacea (mas) aut hepatico fusca (fœm.); alæ anticæ macula magna discali lineaque exteriori punctulari nigris; posticæ nigricantes, fimbria pallidior, gutta discali nigra.

Scodiona milvaria, Guen. *Phal.* ii. 140, 1148, pl. 8, f. 8.

Tasmania.

Genus 20. EUSARCA.

Corpus gracile. Frons non fasciculata. Proboscis robusta. Palpi squamosi, compressi, disjuncti, frontem vix attingentes; articuli indistincti. Pedes longi, graciles. Alæ læves, integræ, non conspersæ; anticæ lineis flexuosis, apice productæ et obtusæ, margine exteriori recto obliquo; posticæ rotundatæ, margine exteriori non convexo. *Mas.*—Antennæ pectinatæ; rami gracillimi, valde pubescentes. Tibiæ posticæ non incrassatæ. *Fœm.*—Antennæ graciles, setacæ.

Aspilates, p., *Boisd.*; *Dup.*

Eusarca, *Herr.-Sch. Eur. Schm.* iii. 34; *Leder.*; *Guen. Phal.* ii. 143.

Body slender. Front not tufted. Proboscis robust. Palpi squamous, compressed, separated by the proboscis, hardly extending to the front; joints indistinct. Legs long, slender. Wings smooth, entire, not speckled; fringe long. Fore wings with bent lines, elongated and obtuse at the tips; exterior border straight, oblique. Hind wings with rounded angles; exterior border not convex. *Male.*—Antennæ pectinated; branches very slender and very pubescent. Hind tibiæ not incrassated. *Female.*—Antennæ slender, setaceous.

1. EUSARCA JACULARIA.

Pallide testaceo-cinerea; alæ litura discali fuscescente; anticæ linea interiori recta fasciæque exteriori undulata fuscis albido marginatis; posticæ linea exteriori denticulata fuscescente albido marginata.

Geometra jacularia, *Hubn. Geom.* f. 431.

Aspilates jacularia, *Dup. Lep. Sup.* iv. 240, pl. 71, f. 2. *Eversm.*

Faun. Volg.-Ural. 373. *Boisd. Ind.* 188, 1489.

Eusarca jacularia, *Herr.-Sch. Eur. Schm.* iii. 35, 99, pl. 59, f. 365.
Guen. Phal. ii. 144, 1158.

a, b. South Russia. From M. Becker's collection.

2. EUSARCA BADIARIA.

Testaceo-cinerea; alæ puncto discali lineisque exterioribus subundulatis fuscescentibus; anticæ linea interiore fuscescente.

Fidonia emucidaria, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837;
Faun. Volg.-Ural. 388.

Fidonia Mæcanaria, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1847, 18,
 pl. 6, f. 4, 5.

Fidonia badiaria, *Frey. Beitr.* 354.

Eusarca badiaria, *Herr.-Sch. Eur. Schm.* iii. pl. 5, f. 30. *Guen.*
Phal. ii. 144, 1159.

Eusarca telaria, *Herr.-Sch. Eur. Schm.* iii. 34, 98.

South Russia.

Genus 21. SELIDOSEMA.

Corpus sat robustum. Frons squamosa. Proboscis sæpe brevis aut gracilis. Palpi porrecti, rostriformes, aspere squamosi, frontem superantes; articulus 3us distinctus. Pedes longi, sat validi; tibiæ posticæ calcaribus quatuor longis. Alæ cinereæ aut fuscæ, conspersæ aut strigatæ; anticæ productæ, apice obtusæ; posticæ margine exteriori sæpe subdentato. *Mas.*—Antennæ dentatæ aut pectinatæ. Abdomen longum, gracile, sericeum. *Fæm.*—Antennæ filiformes. Abdomen oblongo-ovatum.

Fidonia, p., *Treit.*; *Dup.*; *Boisd.*

Fidonia, p., *Boarmia*, p., et *Eusarca*, p., *Herr.-Sch.*

Selidosema, *Hubn. Verz. Schm.* 299; *Lederer, Geom. Eur.* 68.
Guen. Phal. ii. 145.

Body moderately stout. Front squamous. Proboscis often short or slender, always visible. Palpi porrect, rostriform, coarsely squamous, extending beyond the front; third joint distinct. Thorax with numerous scales. Legs long, rather stout; hind tibiæ with long spurs. Wings gray or brown, dull, speckled or streaked; fringe long. Fore wings elongate, obtuse at the tips. Hind wings often slightly dentate along the exterior border, which is more or less notched or bent in the middle. *Male.*—Antennæ acute, with more or less long teeth or branches. Abdomen long, slender, silky. *Female.*—Antennæ filiform. Abdomen ovate-oblong.

1. SELIDOSEMA INTERPUNCTARIA.

Canescens ; alæ puncto discali punctisque marginalibus nigris, strigulis marginalibus albis ; anticæ linea interiore fuscescente dentata, linea exterior arcuata nigra ; posticæ linea exterior indistincta.

Eusarca interpunctaria, Herr.-Sch. Eur. Schm. iii. 34, 97, pl. 64, f. 390.

Selidosema? *interpunctaria*, Guen. Phal. ii. 146, 1160.

Sicily.

2. SELIDOSEMA CERATARIA.

Mas. S. semicanariæ simillima ; antennæ ramis longis robustis fere contiguis non plumosis ; alæ obscuriores ; anticæ magis productæ ; posticæ flexura minus determinata.

Selidosema cerataria, Guen. Phal. ii. 146, 1162.

Sicily.

3. SELIDOSEMA SEMICANARIA.

Cinerea ; alæ anticæ strigis duabus maculaque discali fuscis, fascia exterior dilute fusca ; posticæ rufescente-cinereæ.

Fidonia semicanaria, Frey. Beitr. i. pl. 78, f. 2. Treit. Schm. x. ; Sup. 2, 190.

Selidosema semicanaria, Guen. Phal. ii. 147, 1163.

Sicily.

4. SELIDOSEMA PLUMARIA.

Cervino-cinerea ; antennæ maris latissime pectinatæ ; alæ fascia exterior pallide cinerea nigricante extus diffuse marginata, spatio marginali cervino ; anticæ fasciis interiore et media nigricantibus apud costam dilatatis.

———, Vill. Ent. Linn. ii. 318, 453.

Geometra plumaria, Wien. Verz. 106, 9. Bork. Eur. Schm. v. 244, 105. Ill. N. Ausg. dess. i. 420, 9. Hubn. Geom. pl. 23, f. 124.

Phalæna roraria, Fabr. Mant. Ins. ii. 189.

Geometra ericetaria, Haw. Lep. Brit. 278.

Fidonia plumaria, Treit. Schm. vi. 1, 306, 24. Dup. Lep. iv. 460, pl. 169, f. 3. Frey. Beitr. iv. pl. 354, f. 3, 4. Boisd. Ind. 191, 1507. Herr.-Sch. Eur. Schm. iii. 86, 230. Delah. Schm. 147.

Selidosema plumaria, Hubn. Verz. Schm. 299, 2896. Guen. Phal. ii. 148, 1165.

Fidonia ericetaria, Steph. Ill. Brit. Haust. iii. 149, 5.

Fidonia pyrenæaria, Boisd. Ind. 191, 1506. Dup. Lep. Sup. iv. 29, pl. 53, f. 1.

a—g. England. From Mr. Stephens' collection.

h. England. From Mr. Bouchard's collection.

i, k. England. From Mr. Turner's collection.

l, m. Scotland. From Mr. Dove's collection.

n—r. England.

5. SELIDOSEMA OSYRARIA.

Mas. *Pallide cinerascens, subtus ochraceo tincta, S. plumariæ dimidio minor; palpi longiores, magis rostriformes; antennæ albæ; alæ fusco sabulosæ, puncto discali vago sat magno, punctis marginalibus parvis; anticæ linea e maculis duabus marginalibus; posticæ umbra media.*

Fidonia Osyraria, Ramb. Boisd. Ind. 191, 1509.

Selidosema Osyraria, Guen. Phal. ii. 148, 1166.

Andalusia.

6. SELIDOSEMA TÆNIOLARIA.

Cinerea, fusco dense conspersa; alæ puncto discali lineaque media dentata nigris, linea exteriori albida denticulata, lunulis marginalibus nigris.

Geometra tæniolaria, Hubn. Geom. pl. 69, f. 357.

Scotopterix tæniolaria, Hubn. Verz. Schm. 313, 3022.

Fidonia tæniolaria, Dup. Lep. iv. 452, pl. 168, f. 3. Boisd. Ind. 191, 1505.

Selidosema tæniolaria, Guen. Phal. ii. 149, 1169.

a—c. South France. From M. Becker's collection.

7. SELIDOSEMA AMBUSTARIA.

Flavo-cinerea (mas) aut flavo-rufa (fœm.); alæ nigro conspersæ puncto discali nigro; anticæ fascia flexuosa nigra (mas) aut nigris (fœm.); posticæ striga flexuosa rufo-nigra.

Geometra ambustaria, Hubn. Geom. pl. 108, f. 567, 568.

Fidonia ambustaria, Treit. Schm. Sup. 2, 183. Frey. Beitr. i. pl. 24, f. 2, 3. Boisd. Ind. 191, 1504.

Fidonia Duponcheliaria, *Lefebvre*, *Mag. Zool.* 1830, 32, pl. 32.

Dup. Lep. v. 554, pl. 210, f. 3.

Boarmia ambustaria, *Geyer*, *Hubn. Geom.* pl. 110, f. 577, 578.

Selidosema ambustaria, *Guen. Phal.* ii. 149, 1170.

Sicily.

North America.

8. SELIDOSEMA JUTURNARIA.

Mas. *Pallide testacea; proboscis bene determinata; palpi incumbentes, longi, rostriformes; antennæ pectinatae; alæ anticæ acutæ, subconspersæ, linea nigricante flexa, macula exteriori informi; posticæ pallidiores, lituris nullis, margine exteriori sinuato inciso.*

Selidosema Juturnaria, *Guen. Phal.* ii. 147, 1164, pl. 15, f. 9.

California.

9. SELIDOSEMA FÆMINARIA.

Fæm. *Testacea; alæ nigricante conferte sabulosæ, punctis marginalibus nigris; antennæ puncto discali, nebula posteriore rufescente-carnea.*

Selidosema fæminaria, *Guen. Phal.* ii. 149, 1167.

California.

Asia.

10. SELIDOSEMA? SEMICLARATA.

Mas. *Cinereo-fusca, subtus albido-testacea; palpi angulati; antennæ pectinatae, apice simplices; tibiæ posticæ incrassatæ; alæ anticæ nigro conspersæ, lineis duabus nigris undulatis antice remotis, linea submarginali cinerea denticulata, macula discali lunulisque marginalibus nigris; posticæ flavescentes, fusco apud marginem interiorem conspersæ.*

Male. Cinereous-brown, mostly whitish testaceous beneath. Palpi extending somewhat beyond the head; third joint elongate-conical, decumbent, forming a slightly obtuse angle with the second. Antennæ moderately pectinated, except towards the tips. Legs speckled; hind tibiæ incrassated, with very short apical spurs. Fore wings black-speckled, slightly rounded at the tips; interior and exterior lines black, undulating, remote from each other in front; submarginal line cinereous, denticulated; discal spot and

marginal lunules black, the former large, elongated. Hind wings yellowish, paler along the costa, with partly confluent brown speckles along the interior border and about the hind part of the exterior border. Length of the body 6 lines; of the wings 16 lines.

This species is rather different from the typical structure of *Selidosema*, and may form a new genus.

a. Bootan. Presented by the Secretary of the India Board.

Australia.

11. SELIDOSEMA PENTHEARIA.

Mas. *Testaceo-cinerea; proboscis gracilis, longa; antennæ pectinatæ; alæ subconsersæ, puncto discali bene determinato, umbra media fusca vix conspicua.*

Selidosema penthearia, Guen. *Phal.* ii. 146, 1164.

Australia.

Genus 22. HYPOSIDRA.

Frons plana, obliqua, subtrigona. Proboscis vix conspicua. Palpi squamosi, læves; articulus 3us brevis, truncatus. Antennæ pectinatæ, apice simplices; rami longi, graciles, plumosi. Abdomen gracile, subconicum. Tibiæ posticæ quadricalcaratæ, non incrassatæ. Alæ spissæ, concolores, lituris non diversis, areola nulla; anticæ subfalcatæ; posticæ rotundatæ.

Hyposidra, Guen. *Phal.* ii. 150.

Male. Front flat, oblique, nearly triangular, slightly prominent beneath. Proboscis rudimentary. Palpi squamous, smooth; joints very distinct; third joint short, truncated. Antennæ pectinated, filiform at the tip; branches long, slender, plumose. Abdomen slender, subconical. Hind tibiæ not incrassated, with four spurs. Wings stout, dull, alike in colour and with like markings, which are most distinct on the under side; areolet obsolete. Fore wings subfalcate. Hind wings rounded.

1. HYPOSIDRA JANIARIA.

Mas. *Ochraceo-flava; alæ lineis duabus arcuatis sinuatis parallelis ferrugineo-fuscis, puncto discali lineaque submarginali; anticæ acutæ, subfalcatæ, margine exteriori subconcavo.*

Hyposidra Janiaria, Guen. *Phal.* ii. 150, 1171.

Java.

Genus 23. NARRAGA.

Statura parva. Corpus mediocre. Palpi hirsuti; articuli indistincti. Antennæ maris ramis abbreviatis approximatis. Alæ angustæ, amygdaliformes.

Fidonia, p., *Treit.*; *Dup.*; *Boisd.*; *Herr.-Sch.*; *Guen.*

Size small. Body moderately stout. Palpi hirsute; joints indistinct. Antennæ of the male with short approximate branches. Wings narrow, almond-shaped.

1. NARRAGA CEBRARIA.

Ochraceo-alba; alæ lineis tribus aut quatuor subundulatis nigricantibus. Var.—*Multo minor*; alæ angustiores, ochraceo vix tinctæ.

Geometra cebraria, *Hubn. Geom.* pl. 24, f. 129. *Esp. Schm.* v. 235, pl. 42, f. 7, 8.

Fidonia cebraria, *Treit. Schm.* vi. 1, 263, 1. *Dup. Lep.* iv. 428, pl. 166; *Sup.* iii. 610, pl. 50, f. 6. *Boisd. Ind.* 192, 1518. *Herr.-Sch. Eur. Schm.* iii. 90, 248. *Guen. Phal.* ii. 153, 1172.

Fidonia baltearia, *Frey. Beitr.* pl. 474. *Led. Geom. Eur.* 99.

Fidonia tessularia, *Metzner, Ent. Stett.* 1843, 183.

Fidonia atromaculata, *Herr.-Sch. Eur. Schm.* iii. 91, 249, pl. 35, f. 216, 217; pl. 36, f. 218; pl. 59, f. 367.

Ural Region.

Genus 24. FIDONIA.

Corpus mediocre. Proboscis obsoleta, subobsoleta aut gracillima. Palpi hirsuti, nunquam ascendentes, frontem plus minusve superantes; articuli indistincti. Thorax brevis. Pectus pilosum. Pedes squamosi, breviusculi; femora pilosa; tibiæ posticæ quadricaratae. Alæ conspersæ, areola longa coarctata; anticæ trigonæ, apice obtusæ; posticæ sæpe discolores. *Mas.*—Antennæ pectinatae aut plumosæ. Abdomen subconicum. *Fæm.*—Antennæ dentatæ aut moniliformes.

Fidonia, *Treit. Schm.* vi. 1, 262; *Dup.*; *Steph.*; *Herr.-Sch.*; *Guen. Phal.* ii. 151.

Perconia et *Catograptæ*, *Hubn. Verz. Schm.* 296.

Fidonia et *Eupisteria*, *Boisd.*

Fidonia et *Ematurga*, *Lederer.*

Body moderately stout. Proboscis obsolete, rudimentary or very slender. Palpi hirsute-pilose, extending more or less beyond the front, never ascending; joints indistinct. Thorax short. Pectus pilose. Legs squamous, rather short; femora pilose; hind tibiæ with two pairs of spurs, of which the fore pair are the longest. Wings dull, speckled. Fore wings triangular, obtuse at the tips. Hind wings often different from the fore wings in colour, always speckled beneath. *Male*.—Antennæ pectinated or plumose. Abdomen speckled, slightly conical. *Female*.—Antennæ dentate or moniliform.

1. FIDONIA CARBONARIA.

Albida; alæ atomis plurimis, puncto discali lineisque quatuor arcuatis (4a marginali) nigris, fimbria nigra albo notata.
Mas.—*Antennæ subpectinatæ.*

Phalæna-Geometra Carbonaria, *Linn. Faun. Suec.* 1246. *Clerck, Icon.* pl. 1, f. 11.

Geometra picearia, *Hubn. Geom.* pl. 106, f. 552—555. *Frey. Beitr.* ii. 57, pl. 66, f. 3.

Fidonia picearia, *Treit. Sup.* 2, 188. *Dup. Lep. Sup.* 48, pl. 54. *Herr.-Sch. Eur. Schm.* iii. 91, 251. *Delah. Schm.* 156.

Eupisteria picearia, *Boisd. Ind.* 192, 1517.

Geometra roscidaria, *Hubn. Geom.* f. 128, 332.

Perconia roscidaria, *Hubn. Verz. Schm.* 296, 2863.

Geometra fuliginaria, *Haw. Lep. Brit.*

Fidonia fuliginaria, *Steph. Ill. Brit. Haust.* iii. 149, 3.

Fidonia carbonaria, *Guen. Phal.* ii. 153, 1173.

a, b. England. Presented by F. Bond, Esq.

c—h. England. From Mr. Stephens' collection.

l, m. England.

n. Scotland. From Mr. Foxcroft's collection.

o—q. Scotland. From Mr. Turner's collection.

2. FIDONIA ATOMARIA.

Flavescente-albida; alæ atomis lineisque deviis latis subconnexis nigro-fuscis, fimbria nigricante albo notata.

———, *Geoff. Ins.* ii. 133, 50. *Deg. Ins.* i. pl. 5, f. 21; ii. 353. *Vill. Ent. Linn.* ii. 305, 427.

Phalæna-Geometra atomaria, *Linn. Syst. Nat.* i. 2, 862, 214; *Faun. Suec.* 1245. *Gmel. ed. Syst. Nat.* i. 5, 2461, 214.

- Phalæna atomaria*, *Fabr. Sp. Ins.* ii. 248, 35; *Mant. Ins.* ii. 189, 46; *Ent. Syst.* iii. 2, 144, 56.
- Geometra atomaria*, *Wien. Verz.* 105, 5. *Ill. N. Ausg. dess.* i. 417, 5. *Bork. Eur. Schm.* v. 226, 98. *Esp. Schm.* v. 226, 98. *Donov. Brit. Ins.* vii. 85, pl. 248, f. 1, 2. *Schr. Faun. Boic.* ii. 2, 21, 1639. *Haw. Lep. Brit.* 280. *Hubn. Geom.* pl. 25, f. 136; pl. 102, f. 526, 527.
- Phalæna Artemisiaria*, *Fuessl. Arch. Ins.* ii. 1, pl. 10, f. 1—5.
- Phalæna pennata*, *Scop. Ent. Carn.* 228, 569.
- Phalæna insoscelata*, *Scop. Ent. Carn.* 225, 558.
- Phalæna Aceraria*, *Berl. Mag.* iv. 5, 520, 33.
- Geometra glarearia*, *Haw. Lep. Brit.* 280.
- Geometra roscidaria*, *Haw. Lep. Brit.* 280.
- Fidonia atomaria*, *Treit. Schm.* vi. 1, 286. *Dup. Lep.* iv. 416, pl. 164, f. 4—6. *Steph. Ill. Brit. Haust.* iii. 148, 1. *Boisd. Ind.* 191, 1515. *Herr.-Sch. Eur. Schm.* iii. 91, 252. *Guen. Phal.* ii. 154, 1174.
- Perconia atomaria*, *Hubn. Verz. Schm.* 296, 2866.
- a—s.* England. From Mr. Stephens' collection.
- t—aa.* England.
- bb, cc.* Scotland. From Mr. Foxcroft's collection.
- dd, ee.* France.

3. FIDONIA CONCORDARIA.

Fusca; *abdominis segmenta pallido marginata*; *alæ anticæ spatio basali, fasciis duabus, linea exteriori maculisque tribus submarginalibus pallide testaceis conspersis, subtus ochraceæ macula submarginali maculari nigricante*; *posticæ ochraceæ, lineis tribus fuscis, subtus flavæ albo radiatæ.*

- Geometra concordaria*, *Hubn. Geom.* pl. 24, f. 126; pl. 100, f. 548, 549.
- Fidonia concordaria*, *Treit. Schm.* vi. 1, 282, 12. *Dup. Lep.* iv. 429, pl. 166, f. 2, 3. *Herr.-Sch. Eur. Schm.* iii. 89, 244. *Guen. Phal.* ii. 156, 1177.
- Catagraptæ concordaria*, *Hubn. Verz. Schm.* 297, 2879.
- Eupisteria concordaria*, *Boisd. Ind.* 192, 1516.
- South Europe.

North America.

4. FIDONIA AVUNCULARIA.

Mas. Pallide fusca; *alæ anticæ radiis lineaque exteriori obscurioribus, litura discali nigra, spatio marginali pallidior*

strigas fuscas elongatas includente; posticæ ochraceæ, nigro strigatæ, lineis duabus atris.

Fidonia avuncularia, Guen. *Phal.* ii. 155, 1176.

California.

5. FIDONIA TRUNCATARIA.

Ochracea (mas) aut alba ochraceo varia (fœm.); antennæ maris pectinatæ; alæ strigulis transversis fasciisque quatuor indeterminatis nigricantibus; anticæ vix acutæ; posticæ trifasciatæ.

Male and female. Ochraceous (*male*) or white varied with ochraceous (*female*), paler beneath. Antennæ of the male moderately pectinated. Wings with transverse blackish speckles and with four more or less broad and irregular bands of the same hue. Fore wings hardly acute; exterior border moderately oblique. Hind wings with only three distinct bands. Length of the body 4 lines; of the wings 12 lines.

Nearly allied to *F. atomaria*.

a—c. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

6. FIDONIA DISCOSPILATA.

Fœm. Alba, fusco dense conspersa; alæ gutta discali magna obscure fusca, lineis tribus fuscis undulatis indeterminatis; anticæ linea media fusca postice abbreviata nonnunquam subobsoleta.

Female. White, thickly brown-speckled. Wings with a large dark brown discal dot; interior, exterior and submarginal lines brown, undulating, irregular, the latter more or less interrupted. Fore wings with a middle brown line, which is abbreviated hindward and is sometimes nearly obsolete; tips slightly rounded; exterior border slightly convex and oblique. Length of the body 4—5 lines; of the wings 12—14 lines.

a—e. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

Africa.

7. FIDONIA FOCULARIA.

Fusca; alæ anticæ cinereo variæ, fasciis fulvis indeterminatis, subtus flavæ fascia media linea marginali lituraque nigris; posticæ fulvæ, lunuladiscalis nigris.

Catograpta focularia, Geyer, *Hubn. Schm. Exot. Zutr.* 16, 428, f. 855, 856.

Fidonia focularia, Guen. *Phal.* ii. 156, 1178.

South Africa.

8. FIDONIA? CAPARIA.

Mas. Saturate cervina; antennæ latissime pectinatæ; alæ elongatæ; anticæ vix acutæ, lineis quatuor nigricantibus diffusis obliquis subundulatis albo ex parte submarginatis, margine exteriori perobliquo; posticæ gutta discali linea fasciæque submarginali nigricantibus.

Fidonia caparia, Boisduval, MSS.

Male. Deep fawn-colour, a little paler beneath. Antennæ very broadly pectinated. Wings elongate, not broad. Fore wings hardly acute, with four blackish diffuse oblique slightly undulating lines, which are irregularly and very interruptedly bordered with white; costa straight; exterior border very oblique. Hind wings with a discal dot, an exterior line and a submarginal band blackish. Wings beneath with a black discal dot and a blackish diffuse submarginal line. Length of the body 4 lines; of the wings 7 lines.

a. South Africa. From Mr. Trimen's collection.

b. South Africa. Presented by Sir A. Smith.

c, d. Cape. From M. Dregé's collection.

Asia.

9. FIDONIA? DUPLICATA.

Fœm. Testaceo-albida; palpi caput superantes; antennæ validæ; alæ fusco conspersæ, lineis duabus fuscis obliquis undulatis parallelis apud costam retractis, fascia submarginali pallidiore diffusa nigricante bimaculata, punctis marginalibus nigricantibus; anticæ elongatæ, linea interiori maculaque discali fuscis, margine exteriori sat obliquo; posticæ macula discali nigricante.

Female. Testaceous-whitish. Palpi extending somewhat beyond the head. Antennæ stout. Wings transversely brown-speckled; middle and exterior lines brown, oblique, undulating, parallel, abruptly retracted towards the costa of the fore wings; submarginal band paler brown, diffuse, nearly contiguous to the exterior line, including a blackish spot in each wing; marginal points blackish. Fore wings elongated, slightly rounded at the tips, with an interior brown line, which is nearly parallel to the middle line; a brown discal spot near the costa on the inner side of the middle line; exterior border rather oblique, hardly convex. Hind wings with a blackish spot on the outer side of the middle line. Length of the body $4\frac{1}{2}$ lines; of the wings 12 lines.

a. North Hindostan. From Mr. Stevens' collection.

Australia.

10. FIDONIA AMITARIA.

Saturate fusca, F. atomariæ affinis; alæ anticæ fasciis interruptis e atomis albidis; posticæ flavæ, fusco conspersæ, linea media margineque fuscis.

Fidonia amitaria, Guen. *Phal.* ii. 155, 1175.

Australia.

11. FIDONIA? RUFONIGRARIA.

Mas. Obscure cinerea; caput thoracisque margo anticus saturate rufa; antennæ serratæ, pubescentes; alæ latæ, rufo tinctæ, nigricante dense conspersæ, margine exteriori subexcavato; anticæ litura discali e atomis coccineis.

Male. Very dark cinereous. Head, fore border of the thorax, fore coxæ and fore femora dark red. Palpi very pilose, extending beyond the head. Antennæ serrated, pubescent. Wings broad, red-tinged, thickly blackish-speckled; exterior border slightly scalloped; fringe long. Fore wings almost rectangular at the tips, with a few crimson flecks in the disk; exterior border hardly oblique in front, moderately oblique hindward. Hind wings extending beyond the abdomen. Length of the body 5 lines; of the wings 12 lines.

a. Sydney. From Mr. Diggles' collection.

New Zealand.

12. FIDONIA? BREPHOSATA.

Mas et fœm. *Fuscescente-cinerea, subtus lutea; antennæ maris pectinatae, apice simplices; alæ anticæ, vix acutæ fasciis duabus ferrugineis dentatis, lineis duabus intermediis cinereis denticulatis nigricante marginatis, puncto discali nigro; posticæ ochraceæ, lineis duabus denticulatis margineque obscuris.*

Male and female. Brownish cinereous, luteous beneath. Palpi extending somewhat beyond the head; third joint elongate-conical. Antennæ of the male moderately pectinated, except towards the tips. Abdomen of the male with a fawn-coloured apical tuft. Fore wings hardly acute, with two ferruginous dentate bands, between which there are two cinereous denticulated blackish-bordered lines; these bands are indistinct in the female; discal point black. Hind wings ochraceous, cinereous towards the base and along most of the interior border; two blackish denticulated lines; exterior border brown, ochraceous speckled; fringe cinereous. Wings beneath with the discal point, two exterior denticulated lines and the exterior border black. Length of the body 4 lines; of the wings 12—13 lines.

a, b. New Zealand. From Mr. Earl's collection.

13. FIDONIA? ACIDALIARIA.

Mas. *Cinereo-cervina; palpi caput superantes, non pilosi; antennæ subpectinatae; alæ sat angustæ, nigro subconsperse, lineis duabus nigricantibus denticulatis, 2a duplicata fasciam abbreviatam cinereo-fuscam includente, linea submarginali e maculis cinereo-fuscis, punctis marginalibus elongatis punctoque discali nigris; anticæ elongatæ, linea interiore nigricante, margine exteriori perobliquo.*

Male. Cinereous fawn-colour. Palpi extending beyond the head, not pilose; third joint very minute. Antennæ slightly pectinated. Wings rather narrow, very minutely black-speckled; middle and exterior lines blackish, denticulated, the latter double and with the intervening space more or less cinereous-brown; submarginal line represented by cinereous-brown spots; marginal points black, elongated; discal point black. Fore wings elongated, slightly rounded at the tips, with an interior blackish line; exterior border very oblique. Length of the body 4 lines; of the wings 12 lines.

a—c. New Zealand. Presented by Dr. Sinclair.

Country unknown.

14. FIDONIA? ORDINATA.

Fœm. Albida, fusco conspersa; palpi brevissimi; alæ latiusculæ, lineis tribus fuscis vix undulatis, 2a obscuriore magis concisa, gutta discali obscure fusca, lunulis marginalibus nigricantibus; anticæ acutæ, linea interiore arcuata fusca.

Female. Whitish, brown-speckled. Palpi very short. Wings rather broad; middle, exterior and submarginal lines brown, hardly undulating; exterior line darker and more concise than the others; marginal lunules blackish; discal dot dark brown. Fore wings acute, with an interior curved brown line; exterior border slightly oblique, hardly convex. Length of the body 5 lines; of the wings 14 lines.

a. ——— ? From Mr. Milne's collection.

15. FIDONIA? XANTHOMETATA.

Mas. Cinerec-ochracea; palpi breves, non pilosi; antennæ sat late pectinatæ; pedes laves; alæ elongatæ; anticæ lineis quatuor ferrugineis indistinctis vix undulatis, gutta discali submarginali nigricante, costa subconvexa, margine exteriori subflexo; posticæ læte ochraceæ.

Male. Cinereous-ochraceous, brighter ochraceous beneath. Palpi short, smooth, slightly declining; third joint very minute. Antennæ rather broadly pectinated; branches pubescent, far apart; Legs smooth; hind tibiæ rather stout, with four moderately long spurs. Wings elongate. Fore wings with four indistinct hardly undulating ferruginous lines, and with a blackish spot in the disk near the exterior border; costa slightly convex; exterior border slightly bent in the middle, very oblique hindward. Hind wings bright ochraceous. Length of the body 4 lines; of the wings 11 lines.

a. ——— ?

Genus 25. BUPALUS.

Corpus sat robustum. Proboscis conspicua. Palpi brevissimi, caput non superantes. Antennæ maris late pectinatæ. Pedes sat validi; tibiæ posticæ quadricalcaratæ. Alæ elongatæ, latiusculæ; anticæ apice rotundatæ, costa recta, margine exteriori obliquo subconvexo.

Fidonia, p., *Treit.*; *Dup.*; *Boisd.*; *Herr.-Sch.*; *Guen.*

Catagraptia, p., *Hubn. Verz. Schm.* 297.

Bupalus, *Leach*; *Steph.*

Body rather stout. Proboscis distinct. Palpi very short, not extending beyond the head. Antennæ of the male broadly pectinated. Legs rather stout; hind tibiæ with four moderately long spurs. Wings elongated, entire, rather broad. Fore wings rounded at the tips; costa straight; exterior border slightly convex, moderately oblique.

1. BUPALUS PINIARIA.

Mas. *Flavescente-albida*; *alæ anticæ linea discali margine exteriori spatique apicali nigricantibus*; *posticæ conspersæ, lineis duabus margineque nigricantibus*. Fœm.—*Ochracea aut cervina*; *alæ bilineatæ*; *anticæ margine exteriori spatique apicali saturatioribus*.

———, *Deg. Ins.* ii. 1, 255, 5, pl. 5, f. 20. *Vill. Ent. Linn.* ii. 298, 411.

Phalæna-Geometra piniaria, *Linn. Syst. Nat.* i. 2, 861, 210; *Faun. Suec.* 1233. *Clerck, Icon.* pl. 1, f. 10. *Gmel. ed. Syst. Nat.* i. 5, 2456, 210.

Phalæna piniaria, *Fabr. Sp. Ins.* ii. 247, 31; *Mant. Ins.* ii. 188, 39; *Ent. Syst.* iii. 2, 141, 45.

Geometra tiliaria, *Linn. Faun. Suec.* 1234. *Clerck, Icon.* pl. 4, f. 11.

Geometra piniaria, *Wien. Verz.* 106, 7. *Ill. N. Ausg. dess.* i. 419, 7. *Bork. Eur. Schm.* v. 239, 103. *Esp. Schm.* v. 107, pl. 21, f. 1—8. *Sepp. Ned. Ins.* vi. 17, pl. 4. *Hubn. Geom.* pl. 22, f. 119, 120; pl. 91, f. 469, 470. *Haw. Lep. Brit.* 278. *Donov. Brit. Ins.* x. 27, pl. 336.

Fidonia piniaria, *Treit. Schm.* iii. 1, 274, 8. *Dup. Lep.* iv. 421, pl. 165, f. 1, 2. *Boisd. Ind.* 191, 1510. *Herr.-Sch. Eur. Schm.* iii. 90, 247. *Guen. Phal.* ii. 156, 1179.

Catagraptia piniaria, *Hubn. Verz. Schm.* 297, 2879.

Bupalus piniarius, *Steph. Ill. Brit. Haust.* iii. 147, 1.

a—q. England. From Mr. Stephens' collection.

r—y. England.

z, aa. Europe. From M. Becker's collection.

bb. Europe. From M. Heminghoffen's collection.

cc—ee. Germany.

Genus 26. EUISTERIA.

Corpus gracile. Proboscis conspicua. Palpi pilosi, porrecti; articulus 3us brevis, conicus. Antennæ maris subpectinatae, ramis subclavatis. Pedes sat graciles; tibiæ posticæ quadricaratae. Alæ latiusculæ, non longæ; anticæ apice rotundatæ, costa subconvexa, margine exteriori obliquo vix convexo.

Fidonia, p., *Treit.*; *Herr.-Sch.*; *Guen.*

Percomia, p., *Hubn. Verz. Schm.* 296.

Eupisteria, *Dup.*; *Boisd.*

Speranza, p., *Curt.*

Body slender. Proboscis distinct. Palpi pilose, porrect, extending somewhat beyond the head; third joint short, conical. Antennæ of the male slightly pectinated; branches subclavate. Legs rather slender; hind tibiæ with four moderately long spurs. Wings rather broad, not long. Fore wings rounded at the tips; costa slightly convex; exterior border hardly convex, moderately oblique.

1. EUISTERIA PINETARIA.

Ochracea; antennæ maris subpectinatae: alæ lineis duabus subundulatis fuscescentibus, linea marginali fusca, fimbria fusco notata; anticæ linea interiore.

Phalæna atomata, *Fabr. Ent. Syst.* iii. 2, 221.

Phalæna flammata? *Fabr. Ent. Syst.* iii. 2, 237.

Geometra pinetaria, *Hubn. Geom.* pl. 24, f. 130.

Geometra quinquaria, *Hubn. Geom.* pl. 100, f. 516, 517.

Fidonia pinetaria, *Treit. Schm.* vi. 1, 265, 3. *Herr.-Sch. Eur. Schm.* iii. 89, 243. *Delah. Schm.* 151. *Guen. Phal.* ii. 157, 1180.

Perconia quinquaria, *Hubn. Verz. Schm.* 296, 2868.

Eupisteria quinquaria, *Dup. Lep.* iv. 431, pl. 166, f. 4, 5. *Boisd. Ind.* 192, 1519.

Speranza sylvaria, *Curt. Brit. Ent.* v. pl. 225.

Speranza brunneata, *Steph. Ill. Brit. Haust.* iii. 145, 1.

a. Scotland. Presented by J. C. Dale, Esq.

b—i. Scotland. From Mr. Stephens' collection.

j. Scotland. From Mr. Stevens' collection.

k—n. Scotland. From Mr. Foxcroft's collection.

o. Scotland.

2. EUPISTERIA SABURRARIA.

Subcinerea; alæ fusco conspersæ, puncto discali fusco, strigis obscure fuscis; anticæ quadristrigatæ; posticæ bistrigatæ.

Fidonia saburraria, *Eversm. Bull. Soc. Imp. Nat. Mosc.* xxiv. 640, 27. *Guen. Phal.* ii. 157, 1181.

Irkoutzk.

Genus 27. SPERANZA.

Corpus gracile. Fasciculus frontalis productus. Proboscis conspicua. Palpi breves, porrecti, pilosi, frontem superantes; articulus 3us parvus. Antennæ maris pectinatæ, apice serratæ. Pedes sat validi; tibiæ posticæ calcaribus quatuor longis. Alæ innotatæ; anticæ apice rotundatæ, costa recta, margine exteriori obliquo subconvexo.

Fidonia, p., *Treit.*; *Dup*; *Herr.-Sch.*; *Guen.*

Isturgia, *Hubn. Verz. Schm.* 297.

Speranza, *Curt.*; *Steph.*; *Boisd.*

Body slender. Frontal tuft prominent. Proboscis distinct. Palpi short, porrect, pilose, extending beyond the front; third joint minute. Antennæ of the male moderately pectinated, serrated towards the tips. Legs rather stout; hind tibiæ with four long spurs. Wings moderately long and broad, without transverse lines or bands. Fore wings rounded at the tips; costa straight; exterior border slightly convex, moderately oblique. Hind wings with pale longitudinal streaks on the under side.

Europe.

1. SPERANZA CONSPICUATA.

Lutea; antennæ maris subpectinatæ; alæ nigro marginatæ; anticæ costa conspersæ; posticæ dense conspersæ, subtus albido strigatæ. Var.—*Alæ fuscae.*

———, *Réaum. Ins.* ii. 355, pl. 28, f. 8—10. *Vill. Ent. Linn.* ii. 318, 452; 330, 494, pl. 6, f. 10.

Geometra conspicuata, *Wien. Verz.* 316, 16. *Ill. N. Ausg. dess.* i. 467, 10, 11. *Bork. Eur. Schm.* v. 465, 228. *Esp. Schm.* v. 124, pl. 24, f. 5—8. *Hubn. Geom.* pl. 22, f. 117, 118.

Phalæna limbaria, *Fabr. Ent. Syst.* iii. 2, 141, 46.

Fidonia conspicuaria, *Treit. Schm.* iii. 272. 7. *Frey. Beitr.* pl. 59, f. 2. *Herr.-Sch. Eur. Schm.* iii. 2, 89, 242. *Delah. Schm.* 150. *Guen. Phal.* ii. 158, 1182.

Geometra limbaria, *Haw. Lep. Brit.* 286.

Isturgia conspicuaria, *Hubn. Verz. Schm.* 297, 2877.

Fidonia limbaria, *Dup. Lep.* iv. 424, pl. 165, f. 3, 4.

Speranza limbaria, *Steph. Ill. Brit. Haust.* iii. 145, 2.

Speranza conspicuaria, *Boisd. Ind.* 192, 1521.

a—g. England. From Mr. Stephens' collection.

h—j. England. From Mr. Bouchard's collection.

k—o. England.

p—v. Europe. From M. Becker's collection.

u. Europe. From Dr. Leach's collection.

2. SPERANZA RORARIA.

Pallide lutea ; alæ fusco conspersæ et marginatæ, puncto discali fusco.

Phalæna roraria, *Fabr. Ent. Syst.* iii. 143, 50.

Geometra roraria, *Esp. Schm.* v. pl. 24, f. 2—4.

Geometra Spartariaria, *Hubn. Geom.* pl. 22, f. 116.

Fidonia Spartiaria, *Dup. Lep.* iv. 426, pl. 163, f. 3. *Frey. Beitr.* 1, pl. 59, f. 1.

Speranza roraria, *Boisd. Ind.* 192, 1522.

Fidonia roraria, *Herr.-Sch. Eur. Schm.* iii. 89, 251. *Delah. Schm.* 149. *Guen. Phal.* ii. 159, 1183.

France. Germany. South Russia.

South America.

3. SPERANZA ? BASIFLAVATA.

Mas. Flava ; palpi fuscæ, pilosi, caput sat superantes ; antennæ subsetulosæ ; abdomen fuscum, basi flavum ; pedes læves, graciles ; alæ fusæ, spatio basali flavo, subtus flavæ, fusco late marginatæ.

Male. Yellow. Palpi brown, pilose, extending rather far beyond the head ; third joint elongate-conical. Antennæ minutely setulose. Abdomen brown, except towards the base. Legs smooth, slender ; hind tibiæ with four long spurs. Wings brown, moderately broad. Fore wings yellow from the base to more than one-third of the surface ; outline of the yellow part undulating ; tips

acute; exterior border slightly convex, rather oblique. Hind wings yellow at the base, extending beyond the abdomen. Wings beneath yellow, with a broad brown border; hind wings with a brown discal dot. Length of the body 3 lines; of the wings 9 lines.

This species differs much from the characters of *Speranza*, and may form a new genus; and the same observation will apply to the two following species.

a. Ega. From Mr. Bates' collection.

South Africa.

4. SPERANZA? DESIGNATA.

Fœm. *Subcervina*; palpi breves, porrecti, rostriformes; pedes graciles, læves; alæ anticæ rotundatæ, fasciis tribus guttisque paucis nigris, fascia 1a tenui, 2a lata, 3a submarginali interrupta, fimbria nigris; posticæ læte ochraceæ, nigro maculatæ, fimbria nigra.

Female. Dull fawn-colour, paler beneath. Palpi short, porrect, rostriform. Legs slender, smooth; hind tibiæ with four moderately long spurs. Fore wings much rounded at the tips, with three blackish bands and with a few blackish dots; first band narrow; second broad; third submarginal, incomplete; costa slightly convex, speckled with brown; exterior border very convex, very oblique hindward; fringe blackish. Hind wings bright ochraceous, with a few black spots and dots which indicate bands; fringe black. Length of the body 3 lines; of the wings 8 lines.

a. South Africa. Presented by Sir A. Smith.

Australia.

5. SPERANZA? FASTIDIATA.

Mas. *Nigris, subtus flava*; palpi breves, graciles, ascendentes; antennæ submoniliformes, setulosæ; abdomen pallide luteum, basi nigris; pedes graciles; alæ anticæ albidæ, subrotundatæ, fasciis quatuor indeterminatis obscure fuscis, gutta discali nigris rotunda, fimbria nigris pallido unitata; posticæ flavæ, ex parte fuscæ.

Male. Blackish, pale yellow beneath. Palpi short, slender, ascending. Antennæ submoniliform, setulose. Abdomen pale

luteous, except towards the base. Legs slender; hind tibiæ with four long spurs. Fore wings whitish, somewhat rounded at the tips, yellowish tinged along the interior border, with four incomplete and irregular dark brown bands; discal dot blackish, round, in the third band; exterior border convex, slightly oblique; fringe blackish, with a pale mark. Hind wings yellow; discal and apical part dark brown. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

a. Moreton Bay. From Mr. Diggles' collection.

Genus 28. ATROOLOPHA.

Statura magna. Corpus sat robustum. Proboscis obsoleta. Palpi producti, caput longe superantes; articulus 3us parvus, conicus. Antennæ maris latissime pectinatæ. Pedes sat validi; tibiæ posticæ quadricalcaratæ. Alæ amplæ; anticæ apice subrotundatæ, costa recta, margine exteriori subconvexo; posticæ lituris supra nullis.

Fidonia, p., *Dup.*; *Boisd.*; *Herr.-Sch.*; *Guen.*
Atroolopha, *Lederer.*

Size large. Body rather stout. Proboscis obsolete. Palpi very prominent, extending far beyond the head; third joint minute, conical. Antennæ of the male very broadly pectinated; branches pubescent. Legs rather stout; hind tibiæ with four moderately long spurs. Wings ample; fringe long. Fore wings with transverse lines, slightly rounded at the tips; costa straight; exterior border slightly convex, moderately oblique. Hind wings without markings above, except the marginal band.

1. ATROOLOPHA CHRYSITARIA.

Fusca; *albido conspersa*; *alæ anticæ lineis duabus angulosis albis*; *posticæ luteæ, nigro marginatæ, apice luteæ.* Mas.—
Antennæ late pectinatæ.

Geometra chrysitaria, *Hubn. Geom.* f. 557, 558.

Fidonia chrysitaria, *Lucas, Expl. Alger.* 390, pl. 3, f. 9. *Dup. Lep. Sup.* iv. 247, pl. 71, f. 7. *Boisd. Ind.* 191, 1512. *Herr.-Sch. Eur. Schm.* iii. 91, 253. *Guen. Phal.* ii. 139, 1184.

Sicily. Algeria.

2. ATROOLOPHA PENNIGERARIA.

Nigro-fusca albido conspersa; alæ fimbria nigra albo notata; anticae fasciis tribus deviis dentatis albis; posticæ luteæ, nigro usque ad apices marginatæ. Mas.—Antennæ late pectinatæ.

Geometra pennigeraria, Hubn. *Geom.* pl. 70, f. 363.

Fidonia pennigeraria, Treit. *Schm.* vi. 1, 280, 10. Dup. *Lep.* iv. 412, pl. 164, f. 2. Boisd. *Ind.* 191, 1511. Herr.-Sch. *Eur. Schm.* iii. 91, 254. Guen. *Phal.* ii. 160, 1185.

Eurranthis pennigeraria, Hübn. *Verz. Schm.* 296, 2872.

a, b. Europe. From M. Becker's collection.

Genus 29. EURRANTHIS.

Statura magna. Corpus robustum, pilosum. Proboscis obsoleta. Palpi breves, hirsuti, frontem perpaullo superantes; articuli indistincti. Antennæ maris latissime plumosæ. Pedes graciles; tibiæ posticæ quadricalcaratæ. Alæ amplæ, fasciatæ; anticæ apice rotundatæ, costa recta, margine exteriori convexo subobliquo.

Fidonia, p., Treit.; Dup.; Boisd.; Herr.-Sch.; Guen.

Eurranthis, Hubn. *Verz. Schm.* 296; Leder.

Size large. Body stout, pilose. Proboscis obsolete. Palpi short, hirsute, extending very little beyond the front; joints concealed by the hairs. Antennæ of the male very broadly plumose, not more slender towards the tips; branches very pubescent. Legs slender; hind tibiæ with four moderately long spurs. Wings ample, banded. Fore wings rounded at the tips; costa straight; exterior border convex, slightly oblique.

1. EURRANTHIS PLUMISTARIA.

Nigra; abdomen luteo punctatum; alæ anticæ albidæ, ochraceo vittatæ, fasciis quatuor nigris macularibus nonnunquam connexis; posticæ ochraceæ, linea integra lineaque exteriori guttulari punctisque nigris. Mas.—Antennæ latissime pectinatæ.

———, Vill. *Ent. Linn.* ii. 326, pl. 6, f. 7.

Geometra plumistaria, Bork. *Eur. Schm.* v. 174, 70. Esp. *Schm.* v. 114, pl. 22, f. 6—8. Hubn. *Geom.* pl. 24, f. 127; pl. 81, f. 417—420.

Fidonia plumistaria, *Treit. Schm.* vi. 1, 281, 11. *Dup. Lep.* iv. 410, pl. 164, f. 1. *Boisd. Ind.* 191, 1514. *Herr.-Sch. Eur. Schm.* iii. 91, 250. *Delah. Schm.* 155. *Guen. Phal.* ii. 160, 1186.

Eurranthis plumistaria, *Hubn. Geom.* 296, 2871.

a, b. Europe. From M. Becker's collection.

c. France.

Genus 30. HELIOTHEA.

Corpus sat robustum. Proboscis subobsoleta. Palpi breves; articuli indistincti. Pedes breves; tibiæ posticæ graciles, bicalcaratæ, femoribus vix longiores. Alæ spissæ, rotundatæ, concolores, fimbria nigra; anticæ angustæ, apicæ productæ; posticæ subtus non conspersæ. *Mas.*—Palpi pilis longis hirsutis occulti. Antennæ pectinatæ, acutæ. *Fæm.*—Antennæ dentatæ. Abdomen longiovatum, alas posticas paullo superans.

Heliothea, *Boisd. Gen.* 178; *Dup.*; *Herr.-Sch.*; *Leder.*; *Guen. Phal.* ii. 161.

Body rather robust. Proboscis rudimentary. Palpi short; joints indistinct. Legs short; hind tibiæ slender, hardly longer than the femora, with one pair of spurs in both sexes. Wings stout, rounded, alike in colour, with no markings, except a discal point; fringe black. Fore wings narrow, elongated at the tips. Hind wings not speckled beneath. *Male.*—Palpi hidden by long hirsute hairs. Antennæ pectinated, acute; branches approximate, recurved. *Female.*—Antennæ distinctly dentate. Abdomen elongate-ovate, extending a little beyond the hind wings.

1. HELIOTHEA DISCOIDARIA.

Aurantiaca; alæ gutta discali atra; anticæ costa fimbriaque nigro-plumbeis; posticæ basi venis margineque exteriori nigris.

Heliothea discoidaria, *Ramb. Boisd. Ind.* 178, 1410. *Dup. Sup.* iv. 40, pl. 54, f. 1. *Herr.-Sch. Eur. Schm.* iii. 37, 102, pl. 37, f. 226. *Guen. Phal.* ii. 161, 1187.

Andalusia.

Genus 31. CLEOGENE.

Corpus gracile. Frons fasciculo hirsuto. Proboscis longa, robusta. Palpi porrecti, hirsuti, caput paullo superantes. Pedes graciles, læves; tibiæ posticæ calcaribus quatuor longis. Alæ latæ,

lituris nullis; anticæ acutæ, costa recta. *Mas.*—Antennæ pectinatæ, acutæ, ramis pubescentibus. *Fæm.*—Antennæ filiformes, setosæ. Abdomen breve, subcarinatum.

Cleogene, *Dup. Lep.* iv. 109; *Boisd.*; *Herr.-Sch.*; *Leder.*; *Guen. Phal.* ii. 162.

Minoa, p., *Treit.*

Crocota et Gypsochroa, *Hubn. Verz. Schm.* 295, 337.

Body slender. Front with a hirsute tuft. Proboscis long, stout. Palpi porrect, hirsute, extending a little beyond the front. Legs slender, smooth; hind tibiæ with four long spurs. Wings broad, without any markings; fringe long. Fore wings acute; costa straight. *Male.*—Antennæ pectinated, acute; branches regular, isolated, pubescent. *Female.*—Antennæ filiform, with short bristles. Abdomen short, slightly keeled.

1. CLEOGENE PELETIERARIA.

Nigro-cinerea, unicolor; alæ anticæ litura discali nigricante.

Cleogene Peletieraria, *Dup. Lep.* v. 140, pl. 180, f. 2. *Boisd. Ind.* 178, 1413. *Herr.-Sch. Eur. Schm.* iii. 62, 158. *Guen. Phal.* ii. 163, 1188.

Pyrenees.

a. Europe. From M. Becker's collection.

2. CLEOGENE LUTEARIA.

Læte ochraceo-flava; antennæ maris ramis nigris; pedes antici nigricantes.

Phalæna lutearia, *Fabr. Ent. Syst.* iii. 2, 143, 52.

Geometra lutearia, *Esp. Schm.* v. 122, pl. 24, f. 1.

Geometra tinctaria, *Hubn. Geom.* pl. 23, f. 121.

Minoa lutearia, *Treit. Schm.* vi. 2, 250, 2.

Crocota tinctaria, *Hubn. Verz. Schm.* 295, 2, 857.

Cleogene tinctaria, *Dup. Lep.* v. 141, pl. 180, f. 3. *Steph. Ill. Brit.*

Haust. iii. 291, 1. *Boisd. Ind.* 178, 1411. *Herr.-Sch. Eur.*

Schm. iii. 62, 156, pl. 58, f. 361. *Delah. Schm.* 100.

Cleogene lutearia, *Guen. Phal.* ii. 163, 1189.

a—e. Europe. From M. Becker's collection.

f. Italy. From Dr. Leach's collection.

3. CLEOGENE ILLIBATA.

Alba; alæ anticæ subtus nigricantes.

———, *Vill. Ent. Linn.* iv. 505.

Geometra illibata, *Wien. Verz.* 116, 5. *Ill. N. Ausg. dess.* i, 474, 5.

Bork. Eur. Schm. v. 491, 243. *Hubn. Geom.* pl. 40, f. 207.

Phalæna illibata, *Fabr. Ent. Syst.* iii 2, 182, 191.

Minoa illibaria, *Treit. Schm.* vi. 2, 256, 6.

Gypsochroa illibata, *Hubn. Verz. Schm.* 337, 3245.

Cleogene illibaria, *Herr.-Sch. Eur. Schm.* iii. 62, 157, pl. 54, f. 331, 332.

Austria. Carniola. Styria. Asia Minor.

Genus 32. ANTHOMETRA.

Frons plana. Proboscis nigra, mediocris. Palpi brevissimi, gracillimi; articuli indistincti. Pedes longi, graciles; tibiæ posticæ gracillimæ, bicalcaratæ. Alæ oblongæ, integræ, concolores, lituris vix ullis, areola simplici. *Mas.*—Antennæ plumosæ; rami longi, graciles. Abdomen acuminatum.

Anthometra, *Boisd. Ind.* 231. *Guen. Phal.* ii. 164.

Front flat. Proboscis black, moderately long. Palpi extremely short and slender; joints indistinct. Legs long, slender; hind tibiæ very slender, with only one pair of spurs. Wings oblong, entire, alike in colour, with hardly any markings; areolet simple; fringe thin. *Male.*—Antennæ plumose; branches long, slender, suddenly diminishing towards the tips. Abdomen acuminate.

1. ANTHOMETRA CONCOLORARIA.

Cervina; alæ angustæ, lineis duabus undulatis parallelis sub-obscurioribus.

Anthometra plumularia, *Ramb. Boisd. Ind.* 231, 1940.

Anthometra concoloraria, *Leder. Cat. Guen. Phal.* ii. 164, 1191.

Andalusia.

Genus 33. MINOA.

Corpus gracile. Frons plana. Proboscis gracilis, mediocris. Palpi læves, squamosi, disjuncti, frontem non superantes. Abdomen conicum. Pedes graciles, nudi; tibiæ posticæ quadricalcaratæ, non

incrassatæ. Alæ tenues, læves, integræ, rotundatæ, sericæ, lituris nullis, areola duplici. *Mas.*—Antennæ subpubescentes.

Minoa, *Treit. Schm.* vi. 2, 248; *Herr.-Sch.*; *Guen. Phal.* ii. 165.
Baptia, *Hubn. Verz. Schm.* 165.

Body slender. Front flat. Proboscis slender, moderately long. Palpi smoothly squamous, apart from each other, not extending beyond the front. Abdomen conical in both sexes. Legs slender, bare; hind tibiæ not incrassated, with two pairs of spurs. Wings delicate, smooth, entire, rounded, silky, without markings; areolet double; veins slender. *Male.*—Antennæ minutely pubescent.

1. MINOA EUPHORBIATA.

Fusco-cervina; alæ innotatæ, concolores.

———, *Vill. Ent. Linn.* ii. 368, 581; iv. 509.

Phalæna-Geometra sordiatæ? *Linn. Syst. Nat.* i. 2, 262.

Geometra euphorbiata, *Wien. Verz.* 116, 9. *Ill. N. Ausg. dess.* i. 475, 9. *Bork. Eur. Schm.* v. 498, 250. *Hubn. Geom.* pl. 15, f. 78. *Haw. Brit. Lep.* 345. *Donov. Brit. Ins.* v. pl. 153, f. 1.

Phalæna euphorbiata, *Fabr. Ent. Syst.* iii. 2, 197, 246. *Schwarz, Beitr.* 190, pl. 24, f. 1.

Phalæna murinata, *Scop. Ent. Carn.* 229, 572. *Rossi, Faun. Etr.* ii. 196, 1178.

Phalæna fuscata, *Berl. Mag.* iv. 5, 524, 44.

Phalæna griseata, *Schr. Faun. Boic.* ii. 2, 53, 1691.

Geometra unicolorata, *Hubn. Beitr.* i. 2, 15, pl. 5, f. L.

Phalæna brunneata? *Fabr. Ent. Syst.* ii. 2, 266.

Minoa euphorbiata, *Treit. Schm.* vi. 2, 249, 1. *Dup. Lep.* v. 547, pl. 209, f. 6. *Steph. Ill. Brit. Haust.* iii. 293, 2. *Boisd. Ind.* 231, 1941. *Herr.-Sch. Eur. Schm.* iii. 109, 10. *Delah. Schm.* 176. *Guen. Phal.* ii. 165, 1192.

Baptia euphorbiata, *Hubn. Verz. Schm.* 165, 1192.

Minoa monochroaria, *Herr.-Sch. Eur. Schm.* iii. 1099, pl. 64, f. 391.

a—j. England. From Mr. Stephens' collection.

k—m. England. From Mr. Foxcroft's collection.

n—p. England.

q—s. Europe. From M. Becker's collection.

Genus 34. SCORIA.

Corpus gracile. Frons quadrata, sulcata. Proboscis bene determinata. Palpi graciles, ensiformes, acuti. Antennæ cylindricæ, non setosæ. Pedes graciles, nudi; tibiæ posticæ quadricaratae. Alæ latæ, æquales, lituris nullis, areola simplici; posticæ margine exteriori subflexo. *Mas.*—Antennæ subtus velutinæ. Abdomen lineare, longissimum. Tibiæ posticæ non incrassatae. *Fæm.*—Abdomen acutum; oviductus productus.

Siona, *Dup.*; *Steph. Ill. Brit. Haust.* iii. 344.

Scoria, *Herr.-Sch.*; *Leder.*; *Guen. Phal.* ii. 167.

Idæa, p., *Treit.*

Schistostege, *Hubn. Verz. Schm.* 336.

Body slender. Front quadrate, furrowed. Proboscis conspicuous. Palpi slender, ensiform, acute. Antennæ cylindrical and without bristles in both sexes. Legs slender, bare; hind tibiæ with two pairs of spurs. Wings broad, equal, alike in colour, without markings, except the darker veins; areolet simple. Hind wings with the exterior border slightly sinuated. *Male.*—Antennæ velvety beneath. Abdomen linear, very long. Hind tibiæ not incrassated. *Female.*—Abdomen acute, with a prominent oviduct.

Europe.

1. SCORIA DEALBATA.

Alba; alæ subtus venis lineaque exteriori subflexa nigricantibus; anticæ subtus litura discali nigricante.

———, *Vill. Ent. Linn.* ii. 347, 532; 361, 565.

Phalæna-Geometra dealbata, *Linn. Syst. Nat.* i. 2, 870, 256. *Gmel. ed. Syst. Nat.* i. 5, 2478, 256.

Phalæna dealbata, *Fabr. Sp. Ins.* ii. 258, 95; *Mant. Ins.* ii. 201, 140; *Ent. Syst.* iii. 2, 177, 173.

Goemetra dealbata, *Wien. Verz.* 116, 3. *Ill. N. Ausg. dess.* i. 473, 3. *Schr. Faun. Boic.* ii. 2, 53, 1692. *Fuessl. Schw. Ins.* 41, 787. *Bork. Eur. Schm.* v. 487, 240. *Hubn. Geom.* pl. 41, f. 214. *Haw. Lep. Brit.* 317.

Phalæna lineata, *Scop. Ent. Carn.* 218, 540.

Phalæna sordida, *Cyrilli, Spec.* 1, *Ent. Neap.* pl. 1, f. 8.

Idæa dealbata, *Treit. Schm.* vi. 2, 259, 1.

Schistostege dealbata, *Hubn. Verz. Schm.* 336, 3243.

Siona dealbata, Dup. *Lep.* v. 539, pl. 209, f. 1, 2. *Steph. Ill. Brit. Haust.* iii. 245, 1. *Frey. Beitr.* pl. 282, f. 4. *Boisd. Ind.* 228, 1923.

Scoria dealbata, Herr.-Sch. *Eur. Schm.* iii. 61, 155. *Guen. Phal.* ii. 168, 1195.

a—e. England. From Mr. Stephens' collection.

f—h. England. From Mr. Bouchard's collection.

i—k. England.

l—o. Europe. From M. Becker's collection.

South America.

2. SCORIA SELECTATA.

Ecem. *Subsulphureo-alba; alis venis nigris; anticæ oblongæ, margine exteriori angulato; posticæ subpolygonæ.*

Scoria selectata, Zell. *MSS.* *Guen. Phal.* ii. 168, 1196.

Colombia.

3. SCORIA IMPOSITORIA.

Mas. *Alba; caput subflavescens; antennæ sat late pectinatæ; alæ semihyalinæ, venis fuscescentibus; anticæ costa nigricante.*

Male. White. Head with a yellowish tinge. Palpi very short, not extending beyond the head; third joint very minute. Antennæ rather broadly pectinated, except towards the tips. Hind tibiæ with four long spurs. Wings semihyaline; veins brownish. Fore wings with the costa blackish. Length of the body $5\frac{1}{2}$ lines; of the wings 15 lines.

Brazil. In Mr. Saunders' collection.

4. SCORIA SIGILLATA.

Mas. *Alba; caput et thorax anticus pallide ochracea; antennæ nigrae, late pectinatæ; abdomen apice subtusque purpureum; alæ candidæ, venis nigricantibus; anticæ costa nigra.*

Male. White. Head and fore part of the thorax pale ochraceous. Palpi short, slender. Antennæ black, broadly pectinated. Abdomen purple towards the tip and beneath. Fore legs mostly blackish. Wings pure white; veins blackish. Fore wings with a black costa. Length of the body $6\frac{1}{2}$ lines; of the wings 17 lines.

a. Cuenca, Province of Equador. From Mr. Fraser's collection.

Mauritius.

5. SCORIA ? MINORATA.

Alæ albidæ, puncto centrali nigro, striga media fusca strigulisque apicalibus obscuris.

Geometra minorata, Boisd. Faune Ent. Mad. Bourb. et Maur. Lép.
115, 5.

Mauritius.

Genus 35. PHYLETIS.

Mas. Corpus gracillimum. Frons squamosa, non producta. Palpi graciles, squamosi, subascendentes. Antennæ pectinatæ, ramis gracillimis ciliatis. Abdomen longum, filiforme, alas posticas non superans. Pedes graciles, sericeæ. Alæ integræ, læves, sericeæ; anticæ oblongæ, trigonæ, peracutæ, margine exteriori recto obliquo, angulo interiore quadrato; posticæ margine exteriori convexo.

Phyletis, Guen. Phal. ii. 169.

Male. Body very slender. Front squamous, not prolonged. Palpi slender, squamous, slightly ascending. Antennæ pectinated; branches very slender, not approximate, with frizzled ciliæ. Abdomen long, filiform, not extending beyond the hind wings. Legs slender, silky. Wings entire, smooth, silky; fringe long. Fore wings oblong, triangular, very acute, with no markings, except an oblique line; areolet simple; exterior border straight, oblique; interior angle quadrate. Hind wings with the exterior border very convex.

Africa.

1. PHYLETIS SILONARIA.

Mas. *Pallide carnea; frons pallide fusca; alæ anticæ acutæ, subfalcatæ, flavo subvariæ, linea obliqua nigricante-rosea costam versus obsoleta, margine exteriori recto, angulo interiore subquadrato; posticæ carneo-albæ, margine exteriori antice convexo postice angulo interiore quadrato.*

Phyletis silonaria, Guen. Phal. ii. 169, 1198.

Abyssinia.

Asia.

2. PHYLETIS PELLONIARIA.

Mas. *Pallide ochraceo-cinerea; abdomen subtus roseo subfusum; alæ sericeæ, fimbria vinoso-rosea; anticæ acutæ, costa fasciæque obliqua recta vinoso-roseis, margine exteriori recto; posticæ subtus roseo tinctæ, umbris duabus parallelis pallide roseis.*

Phyletis pelloniaria, Guen. *Phal.* ii. 169, 1197.

Hindustan.

3. PHYLETIS MEONARIA.

Mas. *Pallide flavescente-carnea; alæ fimbria roseo subtineta; anticæ productæ, acutæ, linea subarcuata costam versus obsoleta, margine exteriori vix concavo; posticæ lineis duabus parallelis antice obsoletis, subtus roseo conspersæ, angulo interiore quadrato subproducto.*

Phyletis Meonaria, Guen. *Phal.* ii. 170, 1199.

North Hindostan.

Genus 36. HÆMATOPIS.

Corpus sat gracile. Frons rotundata. Proboscis brevis. Palpi graciles, filiformes, incumbentes, frontem non attingentes. Abdomen breve. Pedes longi; tibiæ posticæ quadricaratae; tarsi breves. Alæ sat angustæ, concolores, lituris non diversis; anticæ acutæ, sublanceolatae; posticæ breves, margine exteriori angulato. Mas.—Antennæ breves, plumosæ, apice filiformes. Fem.—Antennæ moniliformes, pubescentes.

Hæmatopis, Hubn. *Verz. Schm.* 301. Guen. *Phal.* ii. 170.

Body rather slender. Front rounded. Proboscis short. Palpi slender, filiform, incumbent, not extending to the front. Abdomen short, almost alike in both sexes. Legs long; hind tibiæ long, with four spurs; tarsi short. Wings rather narrow, alike in colour and with like markings; areolet simple, oval. Fore wings acute, almost lanceolate. Hind wings short; exterior border forming an angle. Male.—Antennæ short, plumose, filiform at the tips; branches long, slender, not approximate, slightly recurved. Female.—Antennæ moniliform, pubescent.

1. HÆMATOPIS GRATARIA.

Ochracea ; alæ lineis duabus, 1a bene determinata, 2a tenui subundulata margineque exteriori roseis ; anticæ gutta discali rosea.

Geometra grataria, Fabr. Ent. Syst. Sup. 112, 113.

Hæmatopis saniaria, Hubn. Zutr. 26, 173, f. 345, 346 ; Verz. Schm. 301, 2909.

Hæmatopis grataria, Guen. Phal. ii, 171, 1200, pl. 19, f. 6.

a—e. United States. Presented by E. Doubleday, Esq.

f, g. Canada. Presented by V. S. M. D'Urban, Esq.

h. United States. From Mr. Milne's collection.

i, j. ——— ?

2. HÆMATOPIS LÆTIFICATA.

Fœm. Læte purpurascens-rosea ; alæ anticæ læte flavæ, puncto discali saturate rufo, costa, linea obliqua fasciæque marginali purpureo-roseis ; posticæ pallide æneo-flavæ, margine exteriori subpurpurascens.

Female. Bright purplish rosy. Abdomen and body beneath whitish. Wings with the exterior part of the fringe lead-colour. Fore wings bright yellow, with a deep red discal point ; costa and a straight oblique line bright purplish rosy, the latter nearly parallel to a very broad marginal band of the same hue. Hind wings pale æneous-yellow, shining, with a purplish tinge along the exterior border. Length of the body 4 lines ; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

Genus 37. LYTHRIA.

Corpus pilosum. Proboscis brevis, gracilis. Palpi pilosi, rostriformes, acuti, caput superantes. Pedes pilosi, breviusculi ; tibiæ posticæ quadricaratae, femoribus vix longiores. Alæ breves, velutinæ, areola parva ovata ; posticæ abdomen superantes, angulo interiore quadrato. Mas.—Antennæ breves, plumosæ, apice fiformes. Fœm.—Antennæ moniliformes, pubescentes. Abdomen crassum, ovatum, apice obtusum.

Aspilates, p., Treit. ; Dup. ; Boisd. ; Steph.

Lythria, Hubn. Verz. Schm. 300 ; Herr.-Sch. ; Leder. ; Guen. Pal. ii. 171.

Body pilose, rather slender. Proboscis short, slender. Palpi pilose, rostriform, acute, extending beyond the head. Legs pilose, rather short; hind tibiæ hardly longer than the femora, with two pairs of spurs. Wings short, dull, velvety; areolet small, oval. Hind wings not much developed, extending beyond the abdomen; interior angle quadrate. *Male*.—Antennæ short, plumose, filiform at the tips; branches long, slender, not approximate, slightly recurved. *Female*.—Antennæ moniliform, pubescent. Abdomen thick, ovate, obtuse at the tip.

1. LYTHRIA PURPURARIA.

Ochracea; alæ basi nigro sabulosæ, fimbria subpurpurascente; anticæ fascia interiore abbreviata fasciæque exteriori roseo-purpureis.

———, *Geoffr. Hist. Ins.* ii. 126, 34. *Vill. Ent. Linn.* ii. 309, 434.

Phalæna-Geometra purpuraria, *Linn. Syst. Nat.* i. 2, 864, 221; *Faun. Suec.* 1254. *Clerck, Icon.* pl. 9, f. 11. *Gmel. ed. Syst. Nat.* i. 5, 2464, 221.

Phalæna purpuraria, *Fabr. Sp. Ins.* ii. 252, 60; *Mant. Ins.* ii. 195, 92; *Ent. Syst.* iii. 2, 161, 113.

Geometra purpuraria, *Wien. Verz.* 102, 9. *Mull. Faun. Fridr.* 49, 432; *Zool. Dan. Prodr.* 126, 1448. *Ill. N. Ausg. dess.* i. 394, 9. *Bork. Eur. Schm.* v. 66, 29. *Esp. Schm.* v. 173, pl. 31, f. 1—6. *Schr. Faun. Boic.* ii. 2, 10, 1620. *Fuessl. Schw. Ins.* 40, 769. *Hubn. Geom.* pl. 38, f. 138, 139.

Aspilates purpuraria, *Treit. Schm.* vi. 1, 127, 1. *Dup. Lep.* v. 125, pl. 179, f. 1—3. *Steph. Ill. Brit. Haust.* iii. 207, 1. *Frey. Beitr.* i. pl. 60, f. 1. *Boisd. Ind.* 188, 1481.

Phalæna rotaria, *Fabr. Sup.* 112, 113.

Geometra cruentaria, *Bork. Eur. Schm.* v. 66, 30.

Lythria purpuraria, *Hubn. Verz. Schm.* 300, 2902. *Herr.-Sch. Eur. Schm.* iii. 1071. *Guen. Phal.* ii. 172, 1201.

a—e. Europe. From M. Becker's collection.

f. Polish Ukraine. Presented by Dr. Dowler.

g, h. ———?

2. LYTHRIA PLUMULARIA.

Ochracea; alæ anticæ macula costali fasciisque duabus saturate purpureo-fuscis, fascia 1a furcata.

Aspilates plumularia, *Frey. Beitr.* i. 68, pl. 36, f. 3.

Lythria plumularia, Herr.-Sch. Eur. Schm. iii. 107, 4, f. 475—477.
 Guen. Phal. ii. 173, 1202.

Aspilates rheticaria, Delah. Schm. 175.

Grisous. Tyrol.

3. LYTHRIA SANGUINARIA.

L. purpurariæ affinis, linea exteriorè tenuiore magis recta sæpe punctulari, fascia inter lineas lata purpurascente.

Aspilates sanguinaria, Ramb. Boisd. Ind. 188, 1482. Dup. Lep. Sup. iv. 36, pl. 53, f. 5.

Lythria sanguinaria, Herr.-Sch. Eur. Schm. iii. 107, 5, f. 478, 479.
 Leder. Schm. 100. Guen. Phal. ii. 173, 1203.

Lythria numantiaria, Herr.-Sch. Sup. 75, f. 481—483.

Pyrenees. South Spain.

4. LYTHRIA PORPHYRARIA.

Purpureo-rosea; alæ anticæ subtus et apud marginem interiorem flavæ; posticæ flavæ, subtus roseæ.

Lythria porphyria, Dup. Herr.-Sch. Eur. Schm. iii. 107, 5, f. 485, 486. Guen. Phal. iii. 174, 1204.

South Russia.

North America.

5. LYTHRIA? SENTINARIA.

Mas. *Ferruginea; alæ nigro adpersæ, basi nigricantes; anticæ fasciis quatuor obliquis nigris, 2a antice furcata; posticæ fasciis tribus nigris, 2a antice furcata.*

Hæmatopis sentinaria (*Geometra ampla*, *Erastria derivata*), Geyer, Zutr. Samml. Exot. Schmett. 9, 412, f. 823, 824.

Labrador.

Australia.

6. LYTHRIA? PERORNATA.

Fœm. *Ochracea; caput thoracisque fascia purpurascente-roseis; alæ anticæ ochraceo-cervinæ, costa, fasciis tribus (1a 2a que interruptis) lineaque marginali purpurascente-rufis, lineis duabus e punctis nigris; posticæ late ochraceæ, fascia marginali interrupta nigra.*

Female. Ochraceous, bright ochraceous beneath. Head above and a band on the thorax purplish rosy. Wings beneath bright purplish rosy along most of the exterior border; fringe purple, with its exterior part pale purple in the fore wings, cinereous in the hind wings. Fore wings acute, ochraceous fawn-colour, with the costa, three irregular bands and the marginal line deep purplish red; first and second bands much interrupted; two rows of black points on the veins; fringe pale purple, black at the base, and with black marks; exterior border rather oblique; under side with a black patch in the disk and with another by the interior angle. Hind wings bright ochraceous, with indications of a black middle line and with a broad and incomplete black marginal band, which is purplish red beneath; fringe black, yellowish cinereous exteriorly. Length of the body 5 lines; of the wings 14 lines.

a. Tasmania. Presented by R. Butler, Esq.

Genus 38. STERRHA.

Corpus gracile, attenuatum. Frons conica, cornea. Proboscis longiuscula. Palpi squamosi, frontem vix superantes; articulus 3us distinctus, obtusus. Abdomen carinatum, alas posticas superans. Pedes gracillimi; tibiæ posticæ quadricalcaratæ, femoribus duplo longiores. Alæ integræ, læves, nitidæ, tennes, non conspersæ, areola simplici; anticæ trigonæ, productæ; posticæ rotundatæ, pallidiores. *Mas.*—Antennæ pectinatæ, apice filiformes. *Fœm.*—Antennæ filiformes, subpubescentes.

Aspilates, p., *Treit.*; *Dup.*; *Boisd.*

Sterrha, *Hubn. Verz. Schm.* 309; *Herr.-Sch.*; *Leder.*; *Guen. Phal.* ii. 174.

Body slender, attenuated. Front conical, horny, very prominent. Proboscis rather long. Palpi squamous, hardly extending beyond the front; third joint distinct, obtuse. Abdomen keeled, extending beyond the hind wings in both sexes. Legs very slender; hind tibiæ twice the length of the femora, with four slender spurs. Wings entire, smooth, shining, delicate, not speckled; areolet simple. Fore wings triangular, elongated at the tips, with one straight oblique line. Hind wings rounded, paler, without markings. *Male.*—Antennæ slender, pectinated to three-fourths of the length; branches slender, pubescent. *Female.*—Antennæ filiform, slightly pubescent.

1. STERRHA SACRARIA.

Pallide flava; abdomen album; alæ anticæ costa basi lineaque exteriori recta obliqua roseis; posticæ albæ. Var.—Caput, thorax et alæ anticæ rosea, linea exteriori nigricante.

———, *Vill. Ent. Linn.* ii. 309, 433.

Phalæna-Geometra sacraria, *Linn. Syst. Nat.* i. 2, 863, 220. *Gmel. ed. Syst. Nat.* i. 5, 2464, 220.

Phalæna sacraria, *Fabr. Sp. Ins.* ii. 252, 57; *Mant. Ins.* ii. 195, 90; *Ent. Syst.* iii. 2, 159, 106. *Cyrl. Ent. Neap.* pl. 1, f. 10. *Rossi, Faun. Etrusc.* ii. 192, 1161.

Geometra sacraria, *Bork. Eur. Schm.* v. 70, 51. *Esp. Schm.* v. 171, pl. 30, f. 8, 9. *Hubn. Geom.* pl. 38, f. 200.

Aspilates sacraria, *Treit. Schm.* vi. 1, 103, 3. *Dup. Lep.* v. 121, pl. 178, f. 7. *Frey. Beitr.* pl. 131, f. 1, 2. *Eversm. Faun. Volg.-Ural.* 372. *Boisd. Ind.* 188, 1486.

Sterrha sacraria, *Herr.-Sch. Eur. Schm.* iii. 108, 6, pl. 43, f. 264. *Guen. Phal.* ii. 175, 1206.

Geometra sanguinaria, *Esp. Schm.* v. 173, pl. 30, f. 10, 11.

a. England. From Mr. Bouchard's collection.

b. Europe. From M. Becker's collection.

c—l. South Africa. Presented by R. Trimen, Esq.

m. South Africa. From M. Becker's collection.

n. Congo. Presented by Sir J. Richadson.

o—q. South Africa. From Mr. Argent's collection.

r. Cape. Presented by the Entomological Club.

s. Port Natal. From M. Gueinzus' collection.

t—u. South Africa. Presented by Sir A. Smith.

w—y. Cape. From M. Dregé's collection.

z. Punjaub. Presented by Sir J. Hearsay.

aa, bb. North Hindostan. From Mr. James' collection.

cc. North Hindostan. From Mr. Stevens' collection.

2. STERRHA ROSEARIA.

Rosea, S. sacrariæ affinis; alæ latiores, magis rotundatæ; anticæ linea extus flavescente marginatæ; posticæ nigricantes, striga discali lineaque pallidis.

Aspilates rosearia, *Treit. Schm.* vi. 2, 298. *Dup. Lep.* v. 123, pl. 178, f. 8.

Sterrha rosearia, *Herr.-Sch. Eur. Schm.* iii. 108, 8. *Guen. Phal.* ii. 176, 1208.

Stercha anthophilaria (fœm.), *Herr.-Sch. Eur. Schm.* pl. 5, f. 29.

Aspilates sacraria, var. β , *Eversm. Faun. Volg.-Ural.* 372.

S. sacraria, var. ?

Corfu. South Russia.

3. STERRHA ANTHOPHILARIA.

Flava; abdomen nigricans; alæ anticæ costa fasciæque roseis; posticæ nigricantes, litura discali lineæque pallidis.

Geometra anthophilaria, *Hubn. Geom.* f. 433.

Aspilates anthophilaria, *Eversm. Faun. Volg.-Ural.* 371.

Sterrrha anthophilaria, *Herr.-Sch. Eur. Schm.* iii. 108, 7. *Guen. Phal.* ii. 176, 1209.

S. sacraria, var. ?

South Russia.

South America.

4. STERRHA LABDA.

Flava; alæ anticæ linea obliqua recta rosea; posticæ albæ, margine lato ochraceo.

Phalæna Labda, *Cram. Pap. Exot.* ii. 129, pl. 181, f. D.

Sterrrha Labdaria, *Guen. Phal.* ii. 176, 1207.

Surinam.

Africa.

5. STERRHA? FLORILEGARIA.

Fœm. Sulphurea; abdomen flavescens-cinereum; alæ anticæ fimbria, costa interiore fasciæque lata obliqua coccineo roseis; posticæ nigricantes, spatio discali albido; quatuor subtus nigricante-cinereæ.

Sterrrha? florilegaria, *Zell. MSS. Guen. Phal.* ii: 175, 1205.

Caffraria.

6. STERRHA PLECTARIA.

Albo flavescens, S. sacrariæ major; thorax roseus; alæ anticæ costa strigisque roseis, linea exterior obliqua recta nigro varia.

Sterrrha plectaria, *Guen. Phal.* ii. 176, 1210, pl. 8, f. 7.

Abyssinia.

7. STERRHA PARTICIPATA.

Mas. *Pallide flava; caput thoracisque margo anticus rosea; alæ anticæ atomis connexis fasciæque recta perobliqua purpurascens-roseis, gutta discali alba; posticæ albidæ.*

Male. Pale yellow, whitish beneath. Head above and fore border of the thorax rosy. Fore wings with a purplish rosy straight very oblique band, which forms a very acute angle with the exterior border, the surface elsewhere mostly overspread with purplish rosy speckles, which are partly confluent; discal dot white; exterior border very oblique. Hind wings whitish. Length of the body 6 lines; of the wings 14 lines.

a. Namaqua Region. From M. Becker's collection.

8. STERRHA PECULIATA.

Mas. *Ochracea; alæ anticæ linea exteriori nigricante recta perobliqua extus concisa intus diffusa, spatio marginali purpurascens, litura discali alba angusta obliqua; posticæ albæ.*

Male. Ochraceous, whitish beneath. Abdomen and hind wings white. Fore wings with a purplish tinge exteriorly; exterior line blackish, straight, very oblique, concise on the outer side, diffuse on the inner side; fringe purplish; discal mark white, narrow, oblique. Length of the body 5 lines; of the wings 12 lines.

a. Natal. From Dr. Krauss' collection.

Genus 39. OSTEODES.

Corpus gracile. Frons angusta, subfasciculata. Proboscis bene determinata. Palpi rostriformes, squamosi, acuti. Pedes graciles; tibiæ posticæ quadricaratae. Alæ oblongæ, læves, nitidæ, sericeæ, lituris confusis, lineis nullis, areola valde coarctata; anticæ acutæ; posticæ margine exteriori vix dentato. *Mas.*—Antennæ breves, pubescentes. *Fæm.*—Antennæ setaceæ.

Osteodes, Guen. Phal. ii. 177.

Body slender. Front narrow, with a little tuft of hairs, which extends between the palpi. Proboscis conspicuous. Palpi triangular, squamous, acute, rostriform. Legs slender, moderately long; hind tibiæ with four spurs. Wings oblong, smooth, shining, silky;

markings confused; no lines; areolet so compressed that it is hardly apparent. Fore wings acute. Hind wings with the exterior border slightly scalloped. *Male*.—Antennæ short, pubescent. *Female*.—Antennæ setaceous.

1. OSTEODES PROCIDATA.

Mas et fœm. *Osseo-albida; alæ nitidæ, subtus ochraceo flavescens aut rufescentes; anticæ striga discali vix conspicua, apice margineque exteriori fuliginoso cinereis lituram subapicalem includentibus; posticæ non notatæ.*

Osteodes procidata, Guen. Phal. ii. 177, 1311.

Abyssinia.

2. OSTEODES TURBULENTATA.

Fœm. *O. procidata simillima; alæ anticæ subtus nigricante marginatæ; posticæ subtus dimidio antico rufescente flavæ fusco nebulosæ fasciola alba vix flavescens, dimidio postico albæ fuscescente nebulosæ.*

Osteodes turbulenta, Zell. MSS. Guen. Phal. ii. 177, 1212.

Cape.

Genus 40. HYPOPLECTIS.

Corpus sat gracile. Frons plana, pilosa. Proboscis gracilis. Palpi hirsuti, contigui, frontem vix superantes. Tibiæ posticæ subincrassatæ. Alæ sabulosæ, concolores, lituris non diversis; anticæ acutæ, margine exteriori flexo. *Mas*.—Antennæ breves, pectinatæ. *Fœm*.—Antennæ setacæ.

Hypoplectis, Hubn. Verz. Schm. 297; Herr.-Sch.; Leder.; Guen. Phal. ii. 178.

Ennomos, p., Treit.

Aspilates, p., Dup.; Boisd.

Body rather slender. Front flat, pilose. Proboscis slender. Palpi hirsute, contiguous, hardly extending beyond the front. Hind tibiæ slightly incrassated. Wings dull, pulverose, alike in colour and with like markings. Fore wings acute; exterior border bent; interior angle indeterminate. Hind wings with the exterior border slightly concave opposite the cellule. *Male*.—Antennæ short, pectinated; branches long, contiguous at the tips. *Female*.—Antennæ setaceous.

1. HYPOPLECTIS ADSPERSARIA.

Pallide ochracea ; alæ nigricante conspersæ, linea media interrupta flexa nonnunquam obsoleta punctoque discali nigricantibus ; anticæ nonnunquam linea interiore, fimbria antica nigricante.

Phalæna adpersaria, Fabr. Mant. ii. 45 ; Ent. Syst. iii. 2, 144, 54.

Geometra adpersaria, Bork. Eur. Schm. v. 219, 93. Schr. Faun. Boic. ii. 2, 22, 1640. Esp. Schm. v. 255, pl. 45, f. 4. Hubn. Geom. pl. 39, f. 206.

Geometra Jacobæaria, Bork. Eur. Schm. v. 110.

Ennomos adpersaria, Treit. Schm. v. 1, 8, 3.

Hypoplectis adpersaria, Hubn. Verz. Schm. 297, 2876. Herr.-Sch. Eur. Schm. iii. 56, 146. Guen. Phal. ii. 179, 1213.

Aspilates adpersaria, Dup. Lep. v. 118, pl. 173, f. 6. Frey. Beitr. pl. 48. Eversm. Faun. Volg.-Ural. 356. Boisd. Ind. 188, 1490.

Hypoplectis sylvanaria, Herr.-Sch. Eur. Schm. iii. pl. 70, f. 431.

France. Germany. South Russia.

Genus 41. GORYTODES.

Mas. Corpus gracile. Frons penicillis duobus squamosis porrectis. Proboscis longa, gracillima. Palpi lati, porrecti, rostriformes, obtusi, squamoso-hirsuti, caput longe superantes. Antennæ longæ, pectinatæ, ramis longis incumbantibus. Pedes graciles. Alæ angustæ, vix dentatæ ; anticæ acutæ, valde falcatæ ; posticæ lituris supra nullis, costa recta, angulo interiore producto obtuso.

Gorytodes, Guen. Phal. ii. 179.

Male. Body slender. Front with two pencilled tufts, which extend between the palpi. Proboscis long, very slender. Palpi broad, porrect, contiguous, squamous-hirsute, obtusely rostriform, extending much beyond the head. Antennæ long, pectinated ; branches long, filiform, incumbent. Legs slender. Wings narrow, festooned ; fringe thick. Fore wings acute, distinctly falcate. Hind wings without markings above ; costa straight ; interior angle prominent, obtuse.

1. GORYTODES UNCANARIA.

Mas. *Pallide cinerea ; palpi squamosi, longiusculi ; antennæ plumosæ, ramis pubescentibus ; alæ anticæ oblongæ, acutæ, falcatæ, nebulis nigricante-cinereis, puncto discali rotundo*

subpupillato, fimbria alba nigro notata; posticæ subtus albæ, conspersæ, costa venisque anticis pallide fuscis, puncto discali nigro.

Gorytodes uncanaria, *Guen. Phal.* ii. 186, 1214.

California.

Genus 42. PERCONIA.

Corpus gracile. Proboscis conspicua. Palpi porrecti, læves, caput superantes; articulus 3us parvus, conicus. Antennæ maris late pectinatæ, *fæm.* dentatæ. Pedes longi, graciles, læves; tibiæ posticæ calcaribus quatuor longis. Alæ elongatæ, lineis rectis obliquis; anticæ acutæ, costa recta, margine exteriori convexo sat obliquo; posticæ vix dentatæ.

Perconia, *Hubn. Verz. Schm.* 296; *Steph.*

Cabera, p., *Treit.*; *Boisd.*

Aspilates, p., *Dup.*; *Guen.*

Fidonia, p., *Herr.-Sch.*

Body slender. Proboscis moderately long. Palpi porrect, smooth, extending beyond the head; third joint minute, conical. Antennæ of the male broadly pectinated to the tips, of the female dentate. Legs long, slender, smooth; hind tibiæ with four long spurs. Wings elongate, with straight oblique lines. Fore wings acute; costa straight; exterior border convex, rather oblique. Hind wings hardly dentate.

1. PERCONIA STRIGILLARIA.

Albido-cinerea, fusco conspersa; alæ puncto discali nigricante, lineis tribus obliquis fuscis, fimbria fusco notata; anticæ linea interiore fusca. Var.—Alba.

Geometra strigillaria, *Hubn. Beitr.* i. 2, 15, pl. 2, f. 1. *Bork. Eur.*

Schm. v. 223, 97. *Brahm, Ins. Kal.* ii. 1, 254, 148. *Esp.*

Schm. v. 184, pl. 32, f. 7, 8. *Haw. Lep. Brit.* 288.

Geometra respersaria, *Hubn. Geom.* pl. 23, f. 125. *Haw. Lep. Brit.* 289.

Cabera strigillaria, *Treit. Schm.* vi. 1, 348, 3. *Boisd. Ind.* 219, 1812.

Geometra inæquaria, *Haw. Lep. Brit.* 288.

Perconia strigillaria, *Hubn. Verz. Schm.* 296, 2861.

Aspilates strigillaria, *Dup. Lep.* v. 8, pl. 171, f. 1. *Steph. Ill. Brit. Haust.* iii. 209, 4. *Frey. Beitr.* pl. 113. *Guen. Phal.* ii. 181, 1215.

Fidonia strigillaria, *Herr.-Sch. Eur. Schm.* iii. 85, 229. *Delah. Schm.* 146.

Fidonia cretaria, *Eversm. Faun. Volg.-Ural.* 395. *Herr.-Sch. Eur. Schm.* iii. pl. 69, f. 423, 424.

a—s. England. From Mr. Stephens' collection.

t—u. England.

w. Italy. Presented by Dr. Dowler.

Genus 43. CATOPYRRHA.

Corpus sat robustum. Proboscis conspicua. Palpi porrecti, rostriformes, caput longe superantes; articulus 3us minimus. Antennæ maris pectinatæ, ramis densissimis. Pedes longiusculi; tibiæ posticæ calcaribus quatuor longis. Alæ latiusculæ; anticæ apice rotundatæ, costa recta, margine exteriori subconvexo subobliquo.

Aspilates, p., *Treit.*; *Dup.*; *Boisd.*; *Guen.*

Catopyrrha, *Hubn. Verz. Schm.* 301.

Body rather stout. Proboscis distinct. Palpi porrect, rostriform, extending much beyond the head; third joint very minute. Antennæ of the male moderately pectinated; branches very thick-set. Legs rather long; hind tibiæ with four long spurs. Wings rather broad. Fore wings somewhat rounded at the tips; costa straight; exterior border slightly convex and oblique.

North America.

1. CATOPYRRHA DISSIMILARIA.

Luteo-flava; alæ linea exteriori fimbriaque purpureo-roseis, lineis duabus subtus bene determinatis. Fœm.—Alæ linea interiori purpureo-rosea.

Erastria dissimilaria, *Hubn. Exot. Schm.*; *Lep.* v.; *Geom.* i. *Amplæ*, vi.; *Erastr.* B.

Catopyrrha dissimilaria, *Hubn. Verz. Schm.* 301, 2903.

Aspilates dissimilaria, *Guen. Phal.* ii. 182, 1216.

a. Trenton Falls, New York. Presented by E. Doubleday, Esq.

b. East Florida. Presented by E. Doubleday, Esq.

c. ——— ?

2. CATOPYRRHA COLORARIA.

Cinerea ; *alæ lineis duabus nigricantibus, linea exteriori purpureo-rosea nigro marginata* ; *anticæ gutta discali submarginali strigulaque apicali nigris* ; *posticæ albidæ, margine latissimo cinereo.*

Phalæna coloraria, *Fabr. Ent. Syst. Sup.* 96, 97.

Geometra accessaria, *Hubn. Zutr.* f. 503, 504.

Geometra cruentaria, *Hubn. Geom.* pl. 10, f. 48.

Aspilates cruentaria, *Treit. Schm.* vi. 1, 136, 6. *Dup. Lep.* v. 128, pl. 179, f. 8, *Boisd. Ind.* 187, 1478. *Guen. Phal.* ii. 183, 1217.

Georgia.

Australia.

3. CATOPYRRHA? PERCRASSATA.

Mas. Cinerea ; *antennæ setulosæ, pubescentes* ; *pedes longiusculi, sat graciles* ; *alæ latiusculæ, linea marginali obscure fusca* ; *anticæ acutæ, atomis nigris ex parte confluentibus, lineis tribus albis obliquis, 1a 2aque duplicatis, 3a tenui subrecta, plaga discali alba lituram elongatam nigram includente* ; *posticæ bilineatæ.*

Male. Cinereous. Antennæ setulose, pubescent. Legs rather long and slender. Wings rather broad ; marginal line dark brown. Fore wings acute, with black speckles, which are here and there confluent ; lines white, oblique ; interior and exterior lines double ; interior line very slightly undulating, less determinate than the exterior line, which is almost straight ; submarginal line slight, nearly straight ; some indications of a middle line ; a white discal patch containing an elongated black mark ; costa and exterior border straight. Hind wings with the exterior and submarginal lines apparent but faint. Length of the body 6 lines ; of the wings 16 lines.

a. South Australia. Presented by R. Bakewell, Esq.

Genus 44. ASPILATES.

Corpus gracile. Frons plana. Proboscis obsoleta aut brevissima. Palpi lati, squamosi, rostriformes. Abdomen longum, sericeum, subdepressum. Pedes longi, robusti ; tibiæ posticæ longæ, quadricalcaratæ. Alæ læves, sericeæ, nitentes, areola simplici oblonga ; anticæ apice productæ. *Mas.*—Antennæ squamosæ, pectinatae, apice dentatæ, ramis robustis obliquis approximatis.

Aspilates, *Treit.*; *Schm.*; *Dup.*; *Steph.*; *Boisd.*; *Herr.-Sch.*; *Guen. Phal.* ii. 180.

Body slender. Front flat. Proboscis obsolete or very short. Palpi broad, compressed, squamous, rostriform. Abdomen long, silky, slightly depressed. Legs robust, long; hind tibiæ long, with four spurs. Wings smooth, silky, shining; areolet simple, oblong. Fore wings extended at the tips, with at least one very distinct line. Hind wings beneath with markings like those of the fore wings. *Male*.—Antennæ squamous, pectinated, dentate at the tips, which are acute; branches stout, oblique, thick-set.

Europe.

1. ASPILATES CITRARIA.

Lutescens; alæ nigricante subconspersæ, alæ gutta discali lineaque exteriorē vix undulata subpurpurascētib; anticæ lineæ interiorē; posticæ pallidiores.

Geometra gilvaria, var., *Esp. Schm.* v. pl. 51, f. 5.

Geometra citraria, *Hubn. Geom.* pl. 40, f. 212; pl. 103, f. 536, 537. *Haw. Lep. Brit.* 288.

Aspilates citraria, *Treit. Schm.* vi. 1, 139, 8. *Dup. Lep.* v. 116, pl. 178, f. 4, 5. *Steph. Ill. Brit. Haust.* iii. 208, 2. *Frey. Beitr.* pl. 131, f. 4, 5. *Boisd. Ind.* 188, 1491. *Herr.-Sch. Eur. Schm.* iii. 94, 260. *Guen. Phal.* ii. 184, 1220.

a—c. England. From Mr. Rogers' collection.

d—m. England. From Mr. Stephens' collection.

n—v. England.

u, w. Europe. From M. Becker's collection.

x. Spain. Presented by B. Frend, Esq.

2. ASPILATES GILVARIA.

Straminea; alæ gutta discali fusca; anticæ subconspersæ, lineæ exteriorē recta obliqua fusca; posticæ lineæ vix conspicua.

———, *Vill. Ent. Linn.* iv. 501.

Geometra gilvaria, *Wien. Verz.* 102, 10. *Ill. N. Ausg. dess.* i. 395, 10. *Bork. Eur. Schm.* v. 71, 32. *Esp. Schm.* v. 149, pl. 25, f. 8; pl. 51, f. 5. *Hubn. Geom.* pl. 38, f. 201. *Haw. Lep. Brit.* 287.

Aspilates gilvaria, *Treit. Schm.* vi. 1, 132, 4. *Dup. Lep.* v. 114, pl. 178, f. 2, 3. *Curt. Brit. Ent.* pl. 467. *Steph. Ill. Brit. Haust.* iii. 208, 3. *Boisd. Ind.* 188, 1492. *Herr.-Sch. Eur. Schm.*

iii. 94, 259, f. 487. *Delah. Schm.* 159. *Guen. Phal.* ii. 185, 1221.

a—j. England. From Mr. Stephens' collection.

k. England. From Mr. Stevens' collection.

l—o. England. From Mr. King's collection.

p, q. England.

r, s. Europe. From M. Becker's collection.

t, v. Nice. From Dr. Leach's collection.

u. Vevai. From Dr. Leach's collection.

3. ASPILATES CURVARIA.

Pallidissime flava; alæ linea fusca arcuata obliqua; posticæ supra innotatæ, litura oblonga lineaque subtus fuscis.

Aspilates cervaria, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1852, 161.

Guen. Phal. ii. 185, 1222.

South Russia.

4. ASPILATES FORMOSARIA.

Pallide ochracea; abdomen album; alæ puncto discali nigricante; anticæ costa, fascia obliqua margineque exteriori purpurascente-albis; posticæ albæ, unilineatæ.

Aspilates formosaria, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1837, 54; *Faun. Volg.-Ural.* 371. *Herr.-Sch. Eur. Schm.* iii. 94, 264, pl. 5, f. 27, 28. *Guen. Phal.* ii. 185, 1224.

Aspilates gloriosaria, *Boisd. Ind.* 188, 1494. *Ann. Soc. Ent. Fr.* 1852, 408.

France. Austria. South Russia.

5. ASPILATES MUNDATARIA.

Argenteo-alba; alæ anticæ costa, margine exteriori lineisque duabus obliquis antice approximatis cervinis.

———, *Vill. Ent. Linn.* iv. 500.

Phalæna-Geometra mundataria, *Cram. Pap. Exot.* iv. 243, pl. 400, f. H.

Geometra mundataria, *Hubn. Geom.* pl. 72, f. 375; pl. 104, f. 538.

Esp. Schm. v. 250, pl. 45, f. 1.

Phalæna nitidaria, *Fabr. Ent. Syst.* iii. 2, 158, 104.

Geometra nitidaria, *Bork. Eur. Schm.* v. 73, 33.

Aspilates mundataria, *Treit. Schm.* vi. 1, 129, 2. *Dup. Lep.* v. 112, pl. 178, f. 1. *Eversm. Faun. Volg.-Ural.* 370. *Boisd. Ind.* 188, 1495. *Herr.-Sch. Eur. Schm.* iii. 94, 262. *Guen. Phal.* ii. 186, 1225.

South Russia.

a—c. Europe. From M. Becker's collection.

d. Europe.

North America.

6. ASPILATES SIGMARIA.

Fœm. *Pallide ochraceo-flava; alæ non conspersæ, maculis tribus costalibus fuscis lineas fere obsoletas emittentibus, lituris duabus costalibus nigris contiguïs; posticæ supra innotatæ, fasciis subtus duabus nigricantibus arcuatis macularibus remotis.*

Aspilates sigmaria, *Guen. Phal.* ii. 184, 1219.

North America.

7. ASPILATES? ORDINATA.

Fœm. *Pallide rufescente-cinerea; palpi breves, subascendentes; tibiæ posticæ sat spissæ; alæ amplæ, fusco conspersæ, linea exteriori ferruginea vix undulata intus concisa albidoque marginata extus diffusa; anticæ peracutæ, linea interiori recta obliqua extus albido marginata, margine exteriori recto sat obliquo.*

Female. Pale reddish cinereous. Palpi short, obliquely ascending. Hind tibiæ rather stout, with four long spurs. Wings ample, very minutely brown-speckled; exterior line ferruginous, hardly undulating, concise and whitish-bordered on the inner side, diffuse on the outer side, indistinct in the hind wings. Fore wings very acute, with a straight oblique interior line, which is less determinate than the exterior line and is obsolete towards the costa, and is whitish-bordered on the outer side; costa and exterior border straight; the latter rather oblique. Length of the body 6 lines; of the wings 18 lines.

a. Georgia. From Mr. Milne's collection.

South America.

8. ASPILATES ? DECREPITARIA.

Mas. *Cervina*; *alæ strigis transversis confertissimis fuscis, fasciis duabus diffusis cinereis; anticæ basi cinereæ, litura discali nigra.*

Syrrhodia decrepitaria (*Geometra ampla*, *Erastria electa*), *Hubn. Samml. Exot. Schmett. ii. 29, 186, f. 371, 372; Verz. Schm. 300, 2901.*

Aspilates decrepitaria, *Guen. Phal. ii. 184, 1218.*

Bahia.

9. ASPILATES ? PERLINEATA.

Mas. *Cinereo-ochracea*; *palpi robusti, porrecti, pilosi, caput sat superantes; antennæ pectinatæ; pedes breviusculi, sat validi, tibiis fimbriatis; alæ dense vestitæ, puncto disculi lineaque exteriori subrecta subobliqua ferrugineis; anticæ acutæ, linea adhuc exteriori tenui undulata lunulisque submarginalibus ferrugineis, costa subconvexa.*

Male. Cinereous-ochraceous. Palpi stout, porrect, pilose, extending somewhat beyond the head. Antennæ moderately pectinated. Legs rather short and stout; tibiæ fringed. Wings thickly clothed; discal point dark ferruginous, paler in the hind wings; exterior line ferruginous, almost straight, slightly oblique, nearly obsolete in the hind wings. Fore wings acute, with a slight undulating line between the exterior line and the submarginal line, which is composed of lunules; costa and exterior border slightly convex, the latter moderately oblique. Length of the body $4\frac{1}{2}$ lines; of the wings 10 lines.

Amazon Region. In Mr. Saunders' collection.

10. ASPILATES ? HEMICHLORATA.

Fœm. *Viridescens, subtus læte rufa; palpi porrecti, lati, compressi, caput sat superantes, articulo 3o minimo; alæ amplæ; anticæ acutæ, linea exteriori fuscescente-viridi recta obliqua bene determinata, lineis duabus interioribus viridibus indistinctis vix undulatis, puncto discali nigro, fimbria cervina albido marginata; posticæ roseæ, linea saturatiore.*

Female. Dull green, bright red beneath. Palpi porrect, broad, compressed, truncated, extending somewhat beyond the head; third joint extremely minute. Wings ample. Fore wings acute, with a straight oblique exterior well-defined brownish green line; two interior slight indistinct hardly undulating green lines; discal point black; fringe fawn-colour, shining, whitish-tipped; costa and exterior border very slightly convex, the latter moderately oblique. Hind wings rosy, with a middle straight oblique darker rosy line. Length of the body 6 lines; of the wings 18 lines.

a. Rio Janeiro. From Mr. Stevens' collection.

Africa.

11. ASPILATES MÆVIARIA.

Mas. *A. gilveariae affinis; antennæ ramis longioribus; alæ puncto discali tenui; anticæ linea obliqua punctisque exterioribus fuscis; posticæ linea tenuiore abbreviata.*

Aspilates mæviaria, Guen. *Phal.* ii. 185, 1223.

a. South Africa. Presented by Sir H. Smith.

b, c. South Africa. Presented by R. Trimen, Esq.

12. ASPILATES ILLEPIDATA.

Fœm. *Straminea, sat crassa; alæ puncto discali lineaque exteriore punctulari fuscis, punctis marginalibus nigricantibus; anticæ fusco conspersæ, apice rotundatæ, margine exteriore subconvexo sat obliquo; posticæ flavescente-albæ, subtus obscuriores, linea exteriore undulata fusca.*

Female. Straw-colour, rather stout. Abdomen thick. Wings with an exterior line of brown points on the veins; marginal points blackish; discal point brown, minute. Fore wings brown-speckled, rounded at the tips; costa straight; exterior border slightly convex, rather oblique. Hind wings yellowish white, darker and with a brown undulating exterior line on the under side. Length of the body 6 lines; of the wings 16 lines.

a. Caffraria. From M. Becker's collection.

13. ASPILATES OCCUPATA.

Mas et fœm. *Pallide cinerea; caput et thorax anticus subochracea; palpi porrecti, caput sat superantes; antennæ maris pectinatæ, apice simplices; alæ fusco conspersæ, lineis duabus fuscis obliquis parallelis subrectis sat diffusis, puncto discali punctisque marginalibus obscurioribus; anticæ subacutæ, linea interiore fusca..*

Male and female. Pale cinereous. Head in front and fore border of the thorax dull ochraceous. Palpi porrect, extending somewhat beyond the head. Antennæ of the male moderately pectinated, except towards the tips. Wings brown-speckled; middle and exterior lines brown, oblique, parallel, nearly straight, rather diffuse; discal point and marginal points dark brown. Fore wings slightly acute, with an interior brown line; costa and exterior border straight, the latter rather oblique. Length of the body 4—5 lines; of the wings 12—14 lines.

In this species the distance between the middle and exterior lines, and the breadth of the latter, are variable.

a—d. South Africa. Presented by Sir A. Smith.

e, f. South Africa. Presented by R. Trimen, Esq.

g. ——— ?

14. ASPILATES SPISSATA.

Fœm. *Ochraceo-cinerea; palpi porrecti, subangulati, caput sat superantes; abdominis latera subfasciculata; alæ nigricante conspersæ, fasciis duabus fuscis, 2a intus nigricante marginata, puncto discali punctisque marginalibus nigricantibus; anticæ acutæ, fasciis tribus, 1a 2aque ex parte nigris.*

Female. Cinereous, with an ochraceous tinge. Palpi porrect, extending somewhat beyond the head; third joint minute, forming a slight angle with the second. Abdomen with slight tufts along each side. Wings blackish-speckled; middle and exterior bands brown, the latter irregular, bounded on the inner side by a slightly curved blackish line; discal point and marginal points blackish, the former indistinct. Fore wings acute; middle band partly black, as is also the interior brown band; costa straight; exterior border slightly convex, rather oblique. Length of the body 5 lines; of the wings 14 lines.

a. South Africa. Presented by Sir A. Smith.

15. ASPILATES? JUSTARIA.

Mas. *Flava; palpi pedesque rufescentes; illi porrecti, parvi, caput perpaullo superantes; alæ anticæ vix acutæ, lineis duabus angustis subrectis subparallelis subobscurioribus, 1a antice obsoleta, 2a extus albido marginata, costa subconvexa.*

Male. Yellow. Palpi and legs reddish; the former porrect, small, extending very little beyond the head. Antennæ moderately pectinated. Abdomen cinereous. Fore wings hardly acute; interior and exterior lines slender, almost straight and parallel, a little darker than the ground hue, the former obsolete in front, the latter whitish-bordered on the outer side; costa and exterior border slightly convex, the latter moderately oblique. Hind wings whitish yellow. Length of the body 5 lines; of the wings 13 lines.

a. Namaqua Region, South Africa. From M. Becker's collection.

Asia.

16. ASPILATES? TRISTRIGARIA.

Alæ albidæ, anticæ strigis tribus undulatis fuscis; posticæ striga unica, puncto mediano obscuro.

Aspilates tristrigaria, Bremer und Grey, Beitr. zur Schmett. Fauna des Nordlichen China's, 21, 108.

North China.

17. ASPILATES? IRRADIATA.

Mas. *Fuscescente-cinerea; caput thoracisque margo anticus lutea; palpi breves, robusti, porrecti, caput paullo superantes; antennæ subpectinatae; abdomen basi lutescens; alæ fusco conspersæ, puncto discali nigro, linea exteriori fusca obliqua subrecta intus albido marginata, punctis marginalibus fuscis; anticæ acutæ; posticæ pallidiores. Fœm.—Alæ puncto discali obsoleto, linea exteriori albido vix marginata, linea media fuscescente indistincta; anticæ linea interiori indistincta.*

Male. Brownish cinereous, with a luteous tinge beneath. Head and fore border of the thorax luteous. Palpi short, stout, porrect, extending a little beyond the head. Antennæ slightly pectinated. Abdomen with a luteous tinge towards the base. Wings with brown speckles, which are most distinct on the paler hind wings; discal point

black; exterior line brown, oblique, nearly straight, whitish-bordered on the inner side; marginal points brown. Fore wings acute; costa straight; exterior border slightly convex, rather oblique. *Female*.—Wings with the discal point not apparent; exterior line hardly whitish-bordered, more straight in the fore wings, more curved in the hind wings; middle line brownish, indistinct. Fore wings paler, with an indistinct interior line. Length of the body $4\frac{1}{2}$ —5 lines; of the wings 14 lines.

a, b. Shaghai. From the Entomological Society's collection.

18. ASPILATES DISCRIMINARIA.

Mas. *Flavescens; corpus ochraceum; palpi porrecti, vix robusti, caput sat superantes; antennæ pectinatæ; alæ ochraceo subconspersæ, linea exterior recta obliqua, puncto discali lunulisque marginalibus ochraceis; anticæ sat angustæ, apice rotundatæ, linea interiore indistincta ochracea.*

Male. Yellowish. Body ochraceous, rather stout. Palpi porrect, hardly stout, extending somewhat beyond the head. Antennæ moderately pectinated. Wings slightly ochraceous-speckled, with an exterior straight oblique ochraceous line; discal point and marginal lunules ochraceous. Fore wings rather narrow, somewhat rounded at the tips, with an indistinct interior ochraceous line; costa straight; exterior border very oblique. Length of the body 4 lines; of the wings 12 lines.

a. Shanghai. From the Entomological Society's collection.

19. ASPILATES? DISISTARIA.

Mas. *Cervina, subtus ochraceo tincta; palpi porrecti, vix pilosi, caput sat superantes; antennæ late pectinatæ; alæ nigricante conspersæ, lineis duabus flavis obliquis subrectis fusco marginatis antice remotis; anticæ acutæ, litura discali fusca elongata diffusa, margine exterior subflexo.*

Male. Fawn-colour, with an ochraceous tinge beneath. Palpi porrect, hardly pilose, extending somewhat beyond the head. Antennæ broadly pectinated. Wings minutely blackish-speckled, with two oblique yellow nearly straight brown-bordered lines, which are very wide apart on the costa of the fore wings. Fore wings acute, with a diffuse elongated brown discal mark; costa straight; exterior border very slightly bent in the middle. Length of the body 5 lines; of the wings 14 lines.

a. North Hindostan. From Capt. Boyes' collection.

Australia.

20. ASPILATES DISSUTATA.

Fœm. *Pallide cervina; alæ anticæ acutæ, nigro conspersæ, linea interiore recta, linea submarginali guttulari, gutta discali elongata punctisque marginalibus nigris, linea exterior sub-undulata pallide flava, lineis duabus cervinis, gutta discali exterior nigra; posticæ pallidiores, atomis lineisque duabus diffusis dentatis purpurascente-cinereis.*

Female. Pale fawn-colour. Fore wings acute, black-speckled; interior line, submarginal line, discal dot and marginal points black; interior line straight, upright; submarginal line composed of dots; discal dot elongated; exterior line pale yellow, oblique, slightly undulating, contiguous on the middle of its inner side to a black dot, having a fawn-coloured line on its outer side; another fawn-coloured line in the middle; costa straight; exterior border rather oblique. Hind wings paler; speckles and two diffuse dentate lines purplish cinereous; these lines also apparent on the under side of the fore wings; marginal points black. Length of the body 5 lines; of the wings 14 lines.

a. Tasmania. Presented by Dr. Milligan.

b. Tasmania. Presented by E. Doubleday, Esq.

21. ASPILATES SPOLIATA.

Fœm. *Pallidissime cervina, subtus subochracea; palpi porrecti, pilosi, contigui, caput sat superantes; alæ fimbria apice cinerea, litura discali elongata lineaque exterior denticulata fasciæque submarginali diffusa subtus fuscis, his interruptis; anticæ acutæ, litura discali lineaque exterior punctulari fuscis; posticæ pallide luteæ.*

Female. Very pale fawn-colour, more ochraceous beneath. Palpi porrect, pilose, contiguous, extending somewhat beyond the head. Wings with the fringe cinereous towards the tip; under side with a brown elongated discal mark, with a denticulated brown exterior line and with a diffuse brown submarginal band, the two latter incomplete. Fore wings acute; discal mark and exterior line of points brown. Hind wings pale luteous. Length of the body 4 lines; of the wings 12 lines.

a. Tasmania. Presented by M. Allport, Esq.

New Zealand.

22. ASPILATES SUBOCHRARIA.

Ochraceo-flavescens; alæ anticæ puncto discali nigro-fusco, fascia exteriorē ferruginea subundulata intus diffusa; posticæ linea arcuata indistincta; quatuor subtus litura discali lineaque exteriorē.

Aspilates? subochraria, *Doubleday, Dieffenbach's New Zealand*, i. 285, 114.

a. New Zealand. Presented by Dr. Sinclair.

23. ASPILATES ABROGATA.

Mas. *Pallide lutea; palpi porrecti, fimbriati, sat graciles, caput superantes; antennæ sat late pectinatæ, ramis non approximatis; alæ fascia marginali interrupta fusca, lineis subtus latioribus sat determinatis; anticæ subacutæ, lineis exteriorē et submarginali fuscescentibus undulatis parallelis, costa subconvexa.*

Male. Pale luteous. Palpi porrect, fringed, rather slender, extending beyond the head. Antennæ rather broadly pectinated; branches remote from each other. Wings with a brown marginal band, which is incomplete in the fore wings. Fore wings slightly acute; exterior and submarginal lines brownish, undulating, almost parallel, the latter apparent here and there on the hind wings; costa and exterior border slightly convex, the latter rather oblique. Wings beneath with broader and more distinct lines. Length of the body 5 lines; of the wings 12 lines.

a. New Zealand. From Mr. Earl's collection.

Country unknown.

24. ASPILATES DIFFUSARIA.

Mas. *Cinereo-ochracea; palpi porrecti, sat graciles, caput superantes; antennæ pectinatæ; alæ ferrugineo conspersæ, linea exteriorē ferruginea obliqua subrecta valde diffusa; anticæ acutæ, linea interiorē ferruginea valde diffusa, costa subconvexa.*

Male. Cinereous-ochraceous. Palpi porrect, rather slender, extending beyond the head. Antennæ moderately pectinated. Wings with ferruginous speckles; exterior line ferruginous, oblique,

nearly straight, very diffuse. Fore wings acute, moderately broad, with an interior very diffuse ferruginous line; costa and exterior border slightly convex, the latter very oblique. Length of the body 5 lines; of the wings 14 lines.

a. ———?

25. ASPILATES INTERMICATA.

Mas. *Albido-cervina, subtus ochraceo tincta; caput antice cervinum; palpi porrecti, breves; antennæ late pectinatæ; alæ latæ, fusco conspersæ; anticæ acutæ, linea exteriori recta obliqua pallide fuscescente intus albido marginata extus diffusa, costa vix convexa; posticæ subpallidiores.*

Male. Whitish fawn-colour, with an ochraceous tinge beneath. Head in front fawn-colour. Palpi porrect, short. Antennæ deeply pectinated. Wings broad, with brown speckles, which are most conspicuous beneath. Fore wings acute, with a straight oblique exterior pale brownish band, which is whitish-bordered on the inner side and is diffuse on the outer side; costa and exterior border hardly convex, the latter slightly oblique. Hind wings a little paler than the fore wings. Length of the body 6 lines; of the wings 16 lines.

a. ———? From Mr. Milne's collection.

26. ASPILATES? PRIMATA.

Mas. *Straminea, nigro conspersa, sat robusta; caput antice ferrugineum; alæ amplæ, margine exteriori inciso; anticæ vix acutæ, lineis duabus albidis postice approximatis, 1a undulata, 2a subdenticulata, spatio intermedio saturatiore, puncto discali nigricante diffuso, costa subconvexa; posticæ albido-stramineæ.*

Male. Straw-colour, black-speckled, rather stout. Head in front and palpi ferruginous. Antennæ moderately pectinated. Wings ample; exterior border notched in the middle. Fore wings hardly acute, with two whitish lines; first line deeply undulating, not oblique; second oblique, slightly denticulated, approaching the first on the interior border, but very remote from it on the costa; space between the lines darker than the wings elsewhere, including a blackish diffuse discal point; costa slightly convex; exterior border very oblique. Hind wings whitish straw-colour. Length of the body 7 lines; of the wings 18 lines.

a. ———?

Uncertain species.

27. ASPILATES ?? CIRCUMFLEXARIA.

Alæ pallide lutescentes, ciliis concoloribus; anticæ macula media transversa marginem anticum attingente maculisque costalibus fuscis; posticæ immaculatæ.

Fidonia circumflexaria, *Eversm. Bull. Soc. Imp. Nat. Mosc.* xxi. 3, 226, 16.

Irkoutzk, E. Siberia.

Genus 45. CONCHYLIA.

Mas. Corpus gracile. Frons aspere squamosa. Proboscis obsoleta. Palpi breves, trigoni, contigui, squamosi, frontem paullo superantes. Antennæ pectinatæ, ramis longis pubescentibus. Pedes robusti; tibiæ posticæ quadricalcaratæ, femoribus vix longiores. Alæ sat angustæ; areola simplici; anticæ elongatæ, obtusæ, fasciis opalinis, costa excavata, margine exteriori obliquo, angulo interiore valde rotundato; posticæ angustæ, rotundatæ, lituris nullis.

*Conchyli*a, *Guen. Phal.* ii. 186.

Conchia, *Hubn. Verz. Schm.* 337.

Male. Body slender. Front roughly squamous. Proboscis obsolete. Palpi short, triangular, contiguous, squamous, extending not much beyond the front. Antennæ pectinated; branches long, pubescent. Legs robust; hind tibiæ hardly longer than the femora, with two approximate pairs of slender spurs. Wings rather narrow; areolet simple. Fore wings elongated, obtuse, with pearly bands; costa excavated; exterior border oblique; interior angle much rounded. Hind wings narrow, rounded, without any markings.

1. CONCHYLIA DITISSIMARIA.

Fusca; alæ anticæ productæ, fasciis tribus latis maculaque apicali trigona margaritaceis nigro marginatis; posticæ angustæ, pallide fusæ.

*Conchyli*a ditissimaria, *Zell. MSS. Guen. Phal.* ii. 186, 1226.

Caffraria.

2. CONCHYLIA NITIDULA.

Argentea ; *alæ anticæ lineis duabus cervinis connexis nigro marginatis, 1a recta abbreviata, 2a flexa, margine exteriori fimbriaque basi cervinis* ; *posticæ linea marginali tenuissima cervina.*

Phalæna-Pyralis nitidula, *Cram. Pap. Exot.* iv. 240, pl. 399, f. N.

Conchia nitidulata, *Hubn. Verz. Schm.* 337, 3252.

Conchylia nitidularia, *Guen. Phal.* ii. 187, 1227.

a. South Africa. From Mr. Trimen's collection.

b. Port Natal. From M. Gueinzus' collection.

3. CONCHYLIA FROSINARIA.

Cervina : *alæ anticæ margine exteriori, macula basali lineisque tribus extus connexis argenteis, lineis 2a 3aque undulatis basi connexis et abbreviatis* ; *posticæ albidæ, fascia flavescente.*

Phalæna-Geometra Frosinaria, *Stoll. Cram. Pap. Exot.* v. 161, pl. 36, f. 7.

Conchia Frosinata, *Hubn. Verz. Schm.* 337, 3251.

Conchylia Frosinaria, *Guen. Phal.* ii. 187, 1228.

Cape.

Genus 46. PISORACA.

Mas. Corpus sat robustum. Proboscis brevis, gracilis. Palpi porrecti, gracillimi, non pilosi, caput paullo superantes; articulus 3us linearis, 2o vix brevior. Antennæ latissime pectinatæ. Abdominis fasciculus apicalis minimus, subcompressus. Pedes læves, graciles; calcaria longa. Alæ anticæ subacutæ, costa margineque exteriori vix convexis, hoc perobliquo.

Male. Body rather stout. Proboscis short, slender. Palpi porrect, very slender, not pilose, extending a little beyond the head; third joint linear, nearly as long as the second. Antennæ very broadly pectinated. Abdomen with a very small slightly compressed apical tuft. Legs smooth, slender; hind tibiæ with four long spurs. Wings moderately broad. Fore wings slightly acute; costa and exterior border hardly convex, the latter very oblique.

This genus has much affinity to the *Acidalidæ*.

1. PISORACA BITACTATA.

Mas. *Pallide testaceo-cinerea; caput ferrugineum, antice albidum; alæ subconspersæ, lineis duabus rectis valde indistinctis, plaga apud angulum anteriorem nigricante-fusca, punctis marginalibus nigris; anticæ plaga marginali nigricante-fusca.*

Male. Pale testaceous-cinereous. Head ferruginous, whitish in front. Wings with indistinct and very minute darker speckles, and with two equally indistinct nearly straight lines; a blackish brown patch by the interior angle; marginal points black. Fore wings with a blackish brown patch by the middle of the exterior border. Length of the body 5 lines; of the wings 14 lines.

a. South Africa. Presented by Sir A. Smith.

Genus 47. NECYOPA.

Mas. Corpus robustum. Proboscis conspicua. Palpi breves, validi, oblique ascendentes, frontem non superantes; articulus 3us obtusus, 2o brevior. Antennæ pectinatæ; rami pubescentes, non approximati. Abdominis fasciculus apicalis longus. Pedes læves, graciles; calcaria longa. Alæ anticæ elongatæ, apice rotundatæ, costa margineque exteriori rectis, hoc perobliquo; posticæ margine interiore dilatato fimbriato.

Male. Body stout. Proboscis distinct. Palpi short, stout, obliquely ascending, not rising to the front; third joint obtuse, rather shorter than the second. Antennæ moderately pectinated; branches pubescent, somewhat apart from each other. Abdomen with a long apical tuft. Legs slender, smooth; hind tibiæ with four long spurs. Wings moderately broad. Fore wings elongate, rounded at the tips; costa and exterior border straight, the latter very oblique. Hind wings much shorter; interior border dilated, fringed, apparently inflated.

1. NECYOPA FLATIPENNATA.

Mas. *Pallide cinerea, subcervino varia; alæ cervino subconspersæ, litura discali elongata lineisque duabus cervinis diffusis indistinctis, fascia subtus lata submarginali; posticæ linea interiore nigro conspersa, striga postica e atomis nigris.*

Male. Pale cinereous, partly tinged with fawn-colour. Wings slightly speckled with fawn-colour; two indistinct diffuse oblique

lines of the same hue, as is also the elongated discal mark; under side with a broad submarginal band. Hind wings with some black speckles on the interior line, and with a streak of black speckles intersecting the exterior line near the interior angle. Length of the body 5 lines; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 48. OZOLA.

Fœm. Corpus sat gracile. Proboscis longa, gracilis. Palpi breves, porrecti, compressi, obtusi, caput paullo superantes; articulus 3us minimus. Antennæ graciles, glabræ. Pedes læves, gracilissimi; calcaria quatuor; tarsi antici longissimi. Alæ subelongatæ; anticæ acutæ, subfalcatæ; costa recta, margine exterioro convexo.

Female. Body rather slender. Proboscis long, slender. Palpi short, porrect, compressed, obtuse, extending a little beyond the head; third joint very minute. Antennæ slender, smooth. Legs smooth, very slender; hind tibiæ with four moderately long spurs; fore tarsi very long. Wings moderately broad, slightly elongated. Fore wings acute, subfalcate; costa straight; exterior border convex towards the tips.

This genus seems to be related to the *Micronidæ*.

1. OZOLA MICRONIARIA.

Fœm. Cinereo-ferruginea, subtus rufescens; alæ nigro conspersæ, lineis duabus subochraceis obliquis subrectis parallelis, puncto discali punctisque marginalibus nigris; anticæ costa nigro notato, lineis apud costam retractis, linea submarginali e punctis nigris.

Female. Cinereous-ferruginous, more reddish beneath. Wings black-speckled; interior and exterior lines dull ochraceous, oblique, nearly straight and parallel; discal point and marginal points black. Fore wings with some black marks along the costa; exterior line especially retracted towards the costa; a submarginal line of black points. Length of the body $3\frac{1}{2}$ lines; of the wings 11 lines.

a. Ceylon. Presented by Dr. Templeton.

Genus 49. ALYDDA.

Mas. Statura parva. Corpus gracile. Proboscis tenuis. Palpi porrecti, rostriformes, caput longe superantes; articulus 3us parvus, lanceolatus. Antennæ validæ, vix pubescentes. Pedes læves; calcaria longa. Alæ elongatæ, sat angustæ; anticæ acutæ, margine exteriori vix dentato; posticæ margine exteriori dentato.

Male. Size small. Body slender. Proboscis slender. Palpi porrect, rostriform, extending far beyond the head, as long as its breadth; third joint small, lanceolate. Antennæ stout, hardly pubescent. Eyes large, prominent. Legs smooth; hind tibiæ with four long spurs. Wings elongate, rather narrow. Fore wings acute; costa straight; exterior border hardly dentate, except towards the interior angle. Hind wings distinctly dentate.

The type of this genus is *A. lignosata*, which has some resemblance to the *Pyralites*.

1. ALYDDA LIGNOSATA.

Mas. Albido-cinerea, rufescente tincta; alæ anticæ basi fasciæque exteriori obliqua purpurascente-fuscis, hac ramis duas nigricantes emittente, margine exteriori purpurascente, fimbria nigricante albo notata; posticæ fascia marginali latiore lineam albidam includente.

Male. Whitish cinereous, with a reddish tinge, which is most prevalent on the under side. Fore wings purplish brown at the base, and with a purplish brown exterior oblique band, which is concise on the inner side, and emits a quadrate blackish branch on the outer side; exterior border purplish; fringe short, blackish, with white marks. Hind wings with the marginal band broader than that of the fore wings, and including an irregular whitish line. Length of the body 3 lines; of the wings 9 lines.

a. Brazil. In Mr. Saunders' collection.

2. ALYDDA? CALIDATA

Mas. Cinereo-cervina, sat valida, subtus ochracea; palpi articulo 3o longi-conico; antennæ validæ, vix serratæ; alæ nigro subconspersæ, linea media ferruginea gracillima valde interrupta, margine exteriori non dentato; posticæ luteæ, margine exteriori purpurascente-rufa.

Male. Cinereous fawn-colour, rather stout, ochraceous beneath. Palpi a little shorter than the breadth of the head; third joint elongate-conical. Antennæ stout, hardly serrate. Wings thinly and minutely black-speckled, with a very slender and widely interrupted ferruginous middle line; exterior border not dentate, fringe moderately long. Hind wings luteous, with a purplish red tinge along the exterior border. Fore wings with a like tinge on the under side. Length of the body 4 lines; of the wings 10 lines.

a. St. Domingo. From Mr. Tweedie's collection.

3. ALYDDA? EBULEATA.

Fœm. *Subcinereo-ochracea, sat gracilis; palpi breves, articulo 3o minimo; alæ ferrugineo conspersæ, margine exteriore non dentato, lineis duabus fuscescentibus obliquis subparallelis vix arcuatis; anticæ linea interiore indistincta, macula discali magna ochracea fusco marginata; posticæ luteæ.*

Female. Ochraceous, rather slender, with a slight cinereous tinge, brighter beneath. Palpi much shorter than the breadth of the head; third joint very short. Wings with ferruginous speckles; exterior border not dentate; fringe short; two brownish oblique hardly curved nearly parallel lines. Fore wings with an indistinct more interior line; discal spot large, brighter ochraceous, brown-bordered. Hind wings luteous. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

a. St. Domingo. From Mr. Tweedie's collection.

4. ALYDDA? SCOPULATA.

Fœm. *Pallide cinerea; palpi articulo 3o longi-conico; antennæ sat validæ; alæ ochraceæ, ferrugineo conspersæ, lineis duabus fuscis subparallelis vix arcuatis, punctis marginalibus nigris; anticæ vix acutæ, margine exteriore non dentato; posticæ flavescentes, ferrugineo marginatæ.*

Female. Ochraceous, brighter beneath. Body pale cinereous. Palpi a little shorter than the breadth of the head; third joint elongate-conical. Antennæ rather stout. Wings ferruginous-speckled; interior and exterior lines brown, hardly curved, nearly parallel; marginal points black. Fore wings hardly acute; exterior border convex, not dentate; fringe short. Hind wings yellowish, with a ferruginous border. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

a. St. Domingo. From Mr. Tweedie's collection.

Genus 50. NARULLA.

Mas. Corpus gracile. Proboscis brevis, gracilis. Palpi porrecti, graciles, compressi, capitis latitudine non breviores; articulus 2us subfimbriatus; 3us linearis, brevis, gracillimus. Antennæ late pectinatæ, apice simplices. Pedes læves, gracillimi; calcaria quatuor longissima. Alæ anticæ subacutæ, costa recta, margine exteriori vix convexo.

Male. Body slender. Proboscis short, slender. Palpi porrect, compressed, slender, about as long as the head; second joint slightly fringed; third linear, very slender, about one-fourth of the length of the second. Antennæ pectinated, except towards the tips; branches rather long, remote from each other. Legs smooth, very slender; hind tibiæ with four very long spurs. Wings moderately broad; fringe long. Fore wings slightly acute; costa straight; exterior border hardly convex, moderately oblique.

1. NARULLA INFIXARIA.

Mas. *Cinerea; alæ fusco conspersæ, linea 1a e punctis nigris, 2a 3aque fuscis denticulatis intus diffusis extus pallido marginatis, gutta discali lunulisque marginalibus nigricantibus; anticæ gutta exteriori discali.*

Male. Cinereous. Wings minutely brown-speckled; interior lines composed of black points; exterior and submarginal lines brown, denticulated, concisely pale-bordered on the outer side, diffuse on the inner side, the second much more conspicuous than the first; discal dot and marginal lunules blackish. Fore wings with an exterior discal dot. Length of the body 3 lines; of the wings 10 lines.

a. Venezuela. From Mr. Dyson's collection.

Genus 51. OSICERDA.

Mas. Corpus sat robustum. Proboscis valida. Palpi breviusculi, sat graciles, subascendentes; articulus 3us longi-conicus. Antennæ late pectinatæ, apice simplices. Pedes læves, sat graciles; calcaria longa. Alæ elongatæ; anticæ vix acutæ, margine exteriori flexo. *Fæm.*—Palpi porrecti, breviores, graciliores. Antennæ subpectinatæ.

Male. Body rather stout. Proboscis stout. Palpi rather short and slender, slightly ascending, extending rather beyond the head;

third joint elongate conical. Antennæ broadly pectinated, except at the tips. Legs smooth, rather slender; hind tibiæ with four long spurs. Wings elongate, moderately broad. Fore wings hardly acute; costa straight; exterior border distinctly bent in the middle. *Female*.—Palpi porrect, more short and slender, hardly extending beyond the head. Antennæ slightly pectinated, except towards the tips.

1. OSICERDA ALIENATA.

Mas et fœm. Rufescente-fusca, cinereo suffusa, subtus ochracea; alæ anticæ nigricante conspersæ, lineis duabus nigricantibus denticulatis subundulatis apud costam dilatatis; posticæ luteæ, margine exteriori cinereo-fusco.

Male and female. Reddish brown, tinged with cinereous, ochraceous beneath. Fore wings blackish-speckled, with two slightly undulating and denticulated blackish lines, which form spots on the costa. Hind wings luteous, cinereous-brown along the exterior border. Length of the body 4—5 lines; of the wings 12—14 lines.

a. Java. Presented by the Secretary of the India Board.

b, c. North Hindostan. Presented by the Secretary of the India Board.

d. Deccan. Presented by the Secretary of the India Board.

e. Madras. Presented by the Secretary of the India Board.

Genus 52. OMIZA.

Mas. Corpus sat robustum. Proboscis conspicua. Palpi breves, graciles, oblique ascendentes; articulus 3us conicus, parvus. Antennæ late pectinatæ, apice simplices. Pedes læves, graciles; calcaria longa. Alæ elongatæ; anticæ acutæ aut subfalcatæ, costa recta, margine exteriori convexo non flexo.

Male. Body rather stout. Proboscis distinct. Palpi short, slender, obliquely ascending, not rising to the front; third joint conical, minute. Antennæ broadly pectinated, except at the tips. Legs smooth, slender; hind tibiæ with four long spurs. Wings elongate, moderately broad. Fore wings acute or subfalcate; costa straight; exterior border convex, not bent.

1. OMIZA INCITATA.

Mas. *Obscure glauco-viridis, subtus læte lutea; alæ anticæ nigro subconspersæ, lineis duabus latis saturatioribus, 1a obliqua subrecta, 2a valde flexa, spatium adhuc exterius subpurpurascens-chalybeo; posticæ læta luteæ, margine interiore glauco-viridi.*

Male. Dull glaucous-green, bright luteous and with a few black speckles beneath. Fore wings thinly and minutely black-speckled; interior and exterior lines broad, deeper green; the first oblique, nearly straight; the latter very deeply bent outward, extending nearly to the exterior border; space beyond this line with a purplish chalybeous tinge; under side with an elongated oblique black discal mark. Hind wings bright luteous, with the tints of the fore wings along the interior border and along the adjoining part of the exterior border. Length of the body 6 lines; of the wings 18 lines.

a—c. Darjeeling. Presented by the Secretary of the India Board.

2. OMIZA LITHOSIARIA.

Mas. *Cinereo-cervina, subtus rufescente-lutea; alæ anticæ maculis duabus costalibus punctisque quatuor posticis nigris; posticæ luteo-flavæ, margine interiore cinerascens-cervino guttis duabus nigris.*

Male. Cinereous fawn-colour, reddish luteous beneath. Fore wings without markings, except two black costal spots and four black points by the interior border, which indicate the interior and exterior lines. Hind wings luteous-yellow, cinereous fawn-colour along the interior border, where there are two black dots, which are the rudiments of the exterior line. Length of the body 5 lines; of the wings 14 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

3. OMIZA? ACONTIARIA.

Mas. *Schistaceo-cinerea; palpi porrecti, rostriformes; thorax fusco biguttatus; alæ anticæ cervinæ, nigro subconspersæ, lineis duabus nigricantibus, 1a arcuata, 2a subrecta, basi spatiumque intermedio cinerascens, macula discali rufescente subrotundata nigro marginata, gutta postica nigricans; posticæ pallide luteæ, lituris apud angulum interiorem fuscis.*

Male. Slaty cinereous, paler beneath. Palpi porrect, rostriform, nearly as long as the breadth of the head. Thorax with a brown dot on each side hindward. Fore wings thinly and minutely black-speckled, fawn-colour, except at the base and between the two blackish lines; first line curved outward, more slender than the second line, which is nearly straight and hardly oblique; discal spot reddish, nearly round, blackish-bordered, joining the inner side of the exterior line; a blackish dot on the interior border near the outer side of the exterior line. Hind wings pale luteous, with some brown marks by the interior angle. Length of the body 4 lines; of the wings 10 lines.

This species should form a new genus.

a. St. Domingo. From Mr. Tweedie's collection.

Genus 53. PAGRASA.

Mas. Corpus robustum. Proboscis conspicua. Palpi porrecti, graciles, brevissimi, caput non superantes; articulus 3us parvus, conicus. Antennæ latissime pectinatæ. Pedes læves, sat validi; calcaria quatuor longa. Alæ elongatæ; anticæ acutæ, costa vix convexa, margine exteriori incisuris duabus bene determinatis; posticæ margine exteriori postico subexcavato. *Fœm.*—Antennæ subpectinatæ.

Male. Body stout. Proboscis distinct. Palpi porrect, slender, very short, not extending beyond the head; third joint minute, conical. Antennæ very broadly pectinated. Legs smooth, rather stout; hind tibiæ with four long spurs. Wings elongate, moderately broad. Fore wings acute; costa hardly convex; exterior border prominent and rounded in the middle, excavated in front and also hindward, where it is very oblique. Hind wings with the exterior border slightly excavated hindward. *Female.*—Antennæ slightly pectinated.

The markings on the body and the wings of this genus indicate an affinity to the *Zerenidæ*.

1. PAGRASA INSTABILATA.

Mas et fœm. Subcervino-cinerea; corpus nigro guttatum; alæ anticæ dimidio basali nigro consperso, fascia media angulata nigra, linea submarginali pallide cinerea undulata, spatio marginali cervino, macula costali subapicali guttisque apud angulum interiorem nigris; posticæ vitta apud marginem interiorem nigro conspersa.

Male and female. Cinereous, with a fawn-coloured tinge. Head with a black dot on the vertex. Thorax with black dots. Abdomen with black speckles, which are partly confluent and form three stripes. Fore wings with black speckles on the basal half, which speckles are concisely divided from an angular black band, the latter passing into speckles on the outer side; submarginal line pale cinereous, undulating; marginal space fawn-colour; a black costal subapical spot, and a cluster of black dots near the interior angle. Hind wings slightly tinged with brown; a stripe of black speckles along the interior border, divided by a pale cinereous line, which corresponds to that of the fore wings. Length of the body 6—6½ lines; of the wings 16—18 lines.

a. Hindostan. Presented by the Secretary of the India Board.

b, c. Silhet. Presented by E. Doubleday, Esq.

d. Silhet. From Mr. Argent's collection.

Genus 54. NEGLA.

Mas. Corpus gracile. Proboscis tenuis. Palpi porrecti, brevissimi, caput non superantes. Antennæ latissime pectinatæ; ramis non approximatis. Pedes læves, graciles, longiusculi; calcaria quatuor longissima. Alæ amplæ; anticæ peracutæ, costa convexa, margine exteriori valde angulato antice subexcavato postice recto perobliquo; posticæ margine exteriori excavato biangulato.

Male. Body slender. Proboscis feeble. Palpi porrect, very short, not extending beyond the head. Antennæ very broadly pectinated. Legs smooth, slender, rather long; hind tibiæ with four very long spurs. Wings ample. Fore wings very acute; costa convex; exterior border with a prominent acute angle in the middle, slightly excavated in front, straight and very oblique hindward. Hind wings extending much beyond the abdomen; exterior border with two prominent acute angles, between which it is deeply excavated.

This genus has even more resemblance than the last one to the *Zerenidæ*.

1. NEGLA PERPLEXATA.

Mas. Pallide flava, subtus lutea; corpus nigro guttatum; alæ nigro subconspectæ, gutta discali lineaque exteriori punctulari arcuata guttisque marginalibus nigris; anticæ maculis costalibus maculisque duabus apud angulum interiorem nigris.

Male. Pale yellow, luteous beneath. Head and thorax with black dots. Abdomen with two rows of black dots. Wings thinly and minutely black-speckled, with a black discal dot, and with an exterior curved line of black points; an irregular row of black marginal dots. Fore wings with black costal spots, and with two elongated black spots near the interior angle; costa luteous towards the base. Length of the body 7 lines; of the wings 18 lines.

a. Ashanti. From the Wesleyan Missionary Society's collection.

Genus 55. PHILECIA.

Mas. Corpus robustum. Proboscis valida. Palpi erecti, non pilosi, vix robusti, frontem non attingentes; articulus 3us conicus, parvus. Antennæ vix pubescentes. Abdomen fasciculatum. Pedes læves, vix robusti; calcaria quatuor longissima. Alæ lineis metallicis; anticæ apice subrotundatæ, costa recta, margine exteriori convexo sat obliquo.

Male. Body robust. Proboscis stout. Palpi vertical, not pilose, hardly stout, not rising so high as the front; third joint conical, minute. Antennæ hardly pubescent. Abdomen with metallic tufts. Legs smooth, hardly stout; hind tibiæ with four very long spurs. Wings moderately broad, with metallic lines. Fore wings somewhat rounded at the tips; costa straight; exterior border convex, rather oblique.

1. PHILECIA BRACTEIGUTTA.

Mas. *Cervina*; abdomen fasciculis duobus cupreis squamosis; alæ lineis subobscurioribus obliquis fere rectis, lineis quatuor e punctis cupreis, linea lunulisque marginalibus nigris tenuissimis.

Male. Fawn-colour, mostly cinereous beneath. Abdomen with two cupreous squamous tufts. Wings with some oblique nearly straight slightly darker lines, which are nearly parallel to four lines of cupreous points; marginal lunules black, very slender; fringe with a very slender black line at the base. Length of the body 4 lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 56. ORUZA.

Fœm. Corpus robustum. Proboscis conspicua. Palpi læves, erecti, sat graciles, frontem non superantes; articulus 3us minimus, Pedes læves, vix robusti; calcaria quatuor longa. Alæ anticæ acutæ, costa recta; margine exteriori convexo subobliquo.

Female. Body stout. Proboscis distinct. Palpi smooth, vertical, rather slender, not rising higher than the front; third joint very minute. Abdomen not extending beyond the hind wings. Legs smooth, hardly stout; hind tibiæ with four very long spurs. Wings moderately broad; fore wings acute; costa straight; exterior border convex, slightly oblique.

1. ORUZA COSTATA.

Fœm. *Lateritia, subtus pallida; alæ puncto discali nigro, linea exteriori vix obliqua lineaque submarginali angulosa venisque pallide flavescentibus; anticæ linea interiore costaque flavescentibus; posticæ striga discali flavescente.*

Female. Brick-red colour, yellowish whitish beneath, except about the border of the wings. Wings with a black discal point, and with an exterior nearly upright pale yellowish line, which is very slightly curved inward in the fore wings and outward in the hind wings; submarginal line pale yellowish, deeply zigzag, except towards the costa of the fore wings; veins and marginal line yellowish. Fore wings with an interior upright pale yellowish line, which is very slightly curved inward; costa of the same hue, which extends across the thorax. Hind wings with a pale yellowish transverse streak, of which the hind end is contiguous to the discal point. Length of the body 4 lines; of the wings 12 lines.

Hindustan. In Mr. Saunders' collection.

2. ORUZA? LIBERATA.

Cinereo-fusca; alæ subelongatæ, gutta discali nigricante cinereo marginata, linea exteriori obliqua subrecta apud costam retracta, linea submarginali angulosa lineaque marginali cinereis, punctis marginalibus nigris; anticæ linea interiore cinerea, costa cinereo notata.

Cinereous-brown, more cinereous beneath. Head wanting. Wings slightly elongate, with a blackish discal dot, which is bor-

dered with pale cinereous; exterior line pale cinereous, oblique, nearly straight, very abruptly retracted towards the costa of the fore wings; submarginal line zigzag, of the same hue, as is also the marginal line; marginal points black. Fore wings with an interior line like the exterior one; costa with pale cinereous marks; exterior border convex, rather oblique. Length of the body 4? lines; of the wings 10 lines.

a. Shanghai. From the Entomological Society's collection.

Genus 57. PALARA.

Fœm. Corpus robustum. Proboscis brevis. Palpi oblique ascendentes, sat graciles, supra fimbriati; articulus 3us minimus. Antennæ pubescentes. Pedes sat graciles; tibiæ pilis longissimis vestitæ; calcaria quatuor longissima. Alæ spissæ, fimbria longa; anticæ acutæ, margine exteriori subconvexo sat obliquo.

Female. Body stout. Proboscis short. Palpi rather slender, obliquely ascending, fringed above; third joint very short. Antennæ pubescent. Legs rather slender; tibiæ clothed with very long hairs; hind tibiæ with four very long spurs. Wings stout, moderately broad; fringe long. Fore wings acute; costa straight; exterior border slightly convex, rather oblique.

1. PALARA IMPLEXATA.

Fœm. *Rufescens*; vertex albus; alæ linea exteriori fuscescente valde indistincta albido punctata, puncto discali fusco, punctis marginalibus nigris; anticæ linea costali alba, linea interiori e punctis tribus fuscis.

Female. Reddish, paler beneath. Vertex white. Antennæ white towards the base. Wings with a very indistinct brownish exterior line, which is accompanied by whitish points, and is much bent outward in the fore wings; discal point brown; marginal points black. Fore wings with a white costal line; interior line indicated by three brown points. Length of the body 4 lines; of the wings 11 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 58. OARACTA.

Mas. Corpus sat robustum. Proboscis conspicua. Palpi validi, brevissimi, oblique ascendentes; articulus 3us minimus. Antennæ late pectinatæ, apice simplices. Pedes læves, graciles; cal-

caria quatuor longissima. Alæ latiusculæ; anticæ vix acutæ, costa margineque exteriore convexis.

Male. Body rather stout. Proboscis distinct. Palpi stout, very short, obliquely ascending, not rising to the vertex; third joint extremely minute. Antennæ broadly pectinated, except at the tips. Legs smooth, slender; hind tibiæ with four very long spurs. Wings rather broad, not long. Fore wings hardly acute; costa and exterior border convex, the latter moderately oblique.

1. OARACTA AURICINCTA.

Mas. *Læte ochracea; alæ lineis exteriore et marginali subarcuatis subparallelis, linea submarginali pallide flavescente, puncto discali fusco; anticæ linea interiore aurata flexa.*

Male. Bright orange, paler beneath. Wings with two slightly curved nearly parallel gilded lines, the one exterior, the other marginal; a pale yellowish submarginal line, hardly defined in the fore wings; discal point brown. Fore wings with an interior bent gilded line. Length of the body 5 lines; of the wings 13 lines.

a. South Africa. Presented by Sir A. Smith.

Genus 59. NOPIA.

Mas. Corpus gracile. Proboscis conspicua. Palpi sat graciles, oblique ascendentes, subangulati; articulus 2us subfimbriatus; 3us conicus, minimus. Antennæ graciles, subsetulosæ. Pedes læves, graciles, longiusculi; tibiæ posticæ latiusculæ, calcaribus quatuor longis. Alæ amplæ, subelongatæ; anticæ peracutæ, costa margineque exteriore subconvexis.

Male. Body slender. Proboscis distinct. Palpi obliquely ascending, rather slender, not rising higher than the vertex; second joint slightly fringed; third conical, very minute, more porrect than the second, with which it forms a slight angle. Antennæ slender, very minutely setulose. Legs smooth, slender, rather long; hind tibiæ rather broad, with four long spurs. Wings ample, slightly elongated. Fore wings very acute; costa and exterior border slightly convex, the latter rather oblique.

1. NOPIA SOPRINATARIA.

Mas. *Cervina; alæ linea recta obliqua punctoque discali nigricantibus diffusis; anticæ linea interiore nigricante flexa diffusa.*

Male. Fawn-colour. Abdomen, hind wings and under side pale fawn-tinged cinereous. Wings with a straight oblique diffuse blackish line; discal point also blackish and diffuse. Fore wings with a bent equally indistinct interior blackish line. Length of the body $5\frac{1}{2}$ lines; of the wings 16 lines.

a. South Africa. Presented by Sir A. Smith.

Genus 60. NOREIA.

Fœm. Corpus sat robustum. Proboscis longiuscula. Palpi ascendentes, compressi, læves, subarcuati; articulus 3us minimus. Antennæ graciles. Pedes læves, graciles, longiusculi. Alæ amplæ, subelongatæ, fimbria brevissima; anticæ peracutæ, margine exteriori recto; posticæ angulo interiori subproducto.

Female. Body rather stout. Proboscis rather long. Palpi ascending, compressed, smooth, very slightly curved, not rising to the vertex; third joint extremely minute. Antennæ slender. Legs smooth, slender, rather long; hind tibiæ with four moderately long spurs. Wings ample, somewhat elongated; fringe very short; fore wings very acute; costa and exterior border straight; the latter rather oblique. Hind wings extending beyond the abdomen; interior angle rather prominent.

1. NOREIA PERDENSATA.

Fœm. *Pallide ferrugineo-fusca; caput obscure fuscum; alæ linea exteriori recta obliqua ferruginea extus pallido marginata, litura discali elongata lineaque exteriori subarcuata subtus obscure fuscis; anticæ linea interiori fusca dentata indistincta, costa pallide rufescente.*

Female. Pale chocolate-colour, cinereous-brown beneath. Head dark brown. Wings with a straight oblique ferruginous exterior line, which is pale-bordered on the outer side, and is obsolete towards the costa of the fore wings; under side with the elongated discal mark and the slightly curved exterior line dark brown, the latter not corresponding to the line above. Fore wings with an interior indistinct dentate brown line; costa pale reddish. Length of the body $6\frac{1}{2}$ lines; of the wings 18 lines.

a. Ceylon. Presented by Dr. Templeton.

b. North Hindostan. From Mr. James' collection.

2. NOREIA? LUCIFERATA.

Mas et fœm. *Albida; caput fuscum; antennæ maris subpubescentes; alæ nigricante subconsersæ, linea exteriorē ochracea recta obliqua extus fusco marginata, fimbria fusca basi ochracea, puncto discali fusco; anticæ linea interiorē ochracea recta obliqua abbreviata.*

Male and female. Whitish. Head brown. Antennæ of the male minutely pubescent. Wings thinly and minutely blackish-speckled, with an exterior straight oblique ochraceous line, which does not extend to the costa of the fore wings, and is brown-bordered on the outer side; fringe brown, ochraceous at the base; discal point brown. Fore wings with a slight straight oblique incomplete ochraceous interior line. Length of the body 5—6 lines; of the wings 16—18 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

b. Silhet? Presented by E. Doubleday, Esq.

Genus 61. NADAGARA.

Fœm. Corpus robustum. Proboscis mediocris. Palpi validi, porrecti, caput superantes; articulus 3us lanceolatus, 2i dimidio non brevior. Pedes longiusculi, sat graciles; calcaria apicalia parva. Alæ amplæ, elongatæ; anticæ acutæ, margine exteriorē subconvexo perobliquo.

Female. Body stout. Proboscis moderately long. Palpi stout, porrect, extending somewhat beyond the head; third joint lanceolate, about half the length of the second. Abdomen not extending beyond the hind wings. Legs rather long and slender; hind tibiæ with the apical spurs much shorter than the first pair. Wings ample, elongate. Fore wings acute; costa straight; exterior border slightly convex, very oblique.

1. NADAGARA VIGAIA.

Fœm. *Pallide-subcervino cinerea; caput et thorax anticus cervina; alæ nigro consersæ, linea obliqua recta fusca apud costam subflexa intus cervino extus albido marginata, puncto discali nigro, linea subtus nigra denticulata vix undulata; anticæ linea interiorē e punctis tribus nigris.*

Female. Pale cinereous, with a slight fawn-coloured tinge. Head and fore part of the thorax fawn-colour. Wings with black

speckles, which are much larger and more numerous on the under side; a brown straight oblique line extending from the middle of the interior border of the hind wings to a little in front of the tips of the fore wings, where it is slightly bent, diffusedly bordered with fawn-colour on the inner side, and concisely bordered with whitish on the outer side, slightly apparent on the under side, where it is accompanied by a denticulated hardly undulating black line; discal point black, hardly apparent above in the hind wings; fringe fawn-colour, whitish-tipped. Fore wings with the interior line indicated by three black points. Length of the body 6 lines; of the wings 18 lines.

a. Ceylon. Presented by Dr. Templeton.

2. NADAGARA INORDINATA.

Fœm. Albida; caput et thorax anticus ochracea; alæ nigro conspersæ, cinereo-cervino ex parte suffusæ, linea fusca recta obliqua extus albido marginata, linea exteriori informi dentata fusca, linea interiori indistincta, puncto discali lunulisque marginalibus nigris.

Female. Whitish. Head and fore part of the thorax ochraceous. Wings partly tinged with cinereous fawn-colour; speckles black, largest and most numerous on the under side; a straight oblique brown line, whitish-bordered on the outer side, extending from the middle of the interior border of the hind wings to a little in front of the tips of the fore wings, on approaching which it is slightly bent; this line is accompanied by an irregular dentate brown line, which is most distinct on the under side; marginal lunules black, very slender; discal point black, not apparent above in the hind wings; interior line brown, slender, dentate, indistinct. Length of the body 8 lines; of the wings 20 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

3. NADAGARA SCITILINEATA.

Fœm. Purpurascente-cinerea; caput et thorax anticus cervina; alæ nigricante subconsersæ, linea alba obliqua subrecta intus fusco marginata apud costam subdenticulata, linea marginali nigra valde concisa, fimbria pallide ochracea; anticæ costa sublutea, puncto discali nigro, fimbria ex parte nigricante.

Female. Purplish cinereous. Head and fore part of the thorax fawn-colour. Wings with a white oblique nearly straight line, which is brown-bordered on the inner side, and extends from two-thirds of

the length of the interior border of the hind wings to four-fifths of the length of the costa of the fore wings, on approaching which it is slightly denticulated; marginal line black, very concise; fringe pale ochraceous; speckles blackish, minute, indistinct; under side transversely and very thickly brown-streaked. Fore wings with a luteous tinge along the costa; discal point black; fringe blackish in the middle. Length of the body 6 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

4. NADAGARA COMPRENSATA.

Fœm. Cervino-cinerea; caput et thorax anticus cervina; vertex albo marginatus; alæ fuscescente subconspersæ, linea exterior obliqua subrecta fusca apud costam retracta, linea marginali nigricante lunulata valde concisa, litura discali fusca elongata; anticæ linea interiore fuscescente indistincta.

Female. Cinereous, tinged with fawn-colour. Head and fore border of the thorax fawn-colour. Vertex bordered with white. Wings with an exterior oblique nearly straight brown line, which is pale-bordered on the outer side, and extends from two-thirds of the length of the interior border of the hind wings to four-fifths of the length of the costa of the fore wings, on approaching which it is retracted; discal mark brown, elongated; marginal line blackish, festooned, very slender and concise; speckles brownish, indistinct; under side transversely and thickly streaked with brown. Fore wings with an indistinct interior brownish line, which is very acutely retracted in front. Length of the body 6 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

5. NADAGARA PULCHRILINEATA.

Fœm. Albido-ochracea; caput et thorax anticus saturate ochracea; alæ ochraceo et fusco subconspersæ, linea nigra obliqua subrecta intus ochraceo extus albo marginata apud costam subarcuata, linea submarginali pallida denticulata valde indistincta, linea marginali nigra lunulata valde concisa; anticæ linea costali chalybea, linea interiore arcuata lituraque discali elongata ochraceis.

Female. Whitish ochraceous. Head and fore part of the thorax dark ochraceous. Wings with a black oblique nearly straight line, which is diffusedly ochraceous-bordered on the inner side and

concisely white-bordered on the outer side, and extends from beyond two-thirds of the length of the interior border of the hind wings to beyond three-fourths of the length of the costa of the fore wings, on approaching which it is very slightly curved; a pale denticulated and very indistinct submarginal line; marginal line black, festooned, very slender and concise; speckles ochraceous or brown, very indistinct; under side with transverse brown streaks and with two brown lines. Fore wings with a chalybeous costal line; discal mark elongated, ochraceous, as is also the slight curved interior line; exterior line beneath mostly composed of points; submarginal line beneath very diffuse. Length of the body 6 lines; of the wings 16 lines.

a. Sarawak, Borneo. From Mr. Wallace's collection.

6. NADAGARA? MICRONEATA.

Mas. *Alba; caput cinereum, antice nigro-fuscum; antennæ pectinatæ, apice simplicis; thorax antice cinereus; alæ cinereo conspersæ, linea exteriori fusca recta valde obliqua apud costam subdenticulata, puncto discali punctisque marginalibus nigris; posticæ linea adhuc exteriori.*

Male. White. Head cinereous, blackish brown in front. Third joint of the palpi conical, not more than one-fourth of the length of the second. Antennæ moderately pectinated to much beyond half the length. Thorax cinereous in front. Wings ample, cinereous-speckled; exterior line brown, straight, very oblique, extending from before the middle of the interior border of the hind wings to a little in front of the tips of the fore wings, on approaching which it is slightly denticulated; space along the interior side of the line nearly free from speckles; marginal points and discal point black, the latter not apparent above in the hind wings; under side more speckled, with the exterior line slightly curved and composed of black points, and with two irregular zigzag submarginal lines. Hind wings with an exterior line like the first one, to which it is parallel. Length of the body 8 lines; of the wings 18 lines.

This species has some affinity to *Micronia*.

Sarawak, Borneo. In Mr. Saunders' collection.

7. NADAGARA INTRACTATA.

Fœm. *Subopalino-cinerea; caput et thorax anticus cervina; alæ linea exteriori albida obliqua denticulata vix arcuata nigro punctata cervino submarginata, linea marginali nigra lunulata valde concisa; anticæ puncto discali nigro, plaga submarginali plagaque subtus subapicali obscure cinereis.*

Female. Slightly opaline-cinereous. Head and fore part of the thorax fawn-colour. Wings with a whitish slight oblique denticulated hardly-curved exterior line, which is indistinctly bordered with fawn-colour, and is accompanied by black points; marginal line black, festooned, very slender and concise, bordered with fawn-colour; under side thickly and transversely blackish-streaked. Fore wings with a black discal point; a dark cinereous patch on the outer side of the middle of the exterior line; fringe white at the tips; under side with a dark cinereous subapical patch. Length of the body 6 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

8. NADAGARA INDETERMINATA.

Fœm. *Schistaceo-cinerea; caput ochraceum; alæ latæ, fascia media obliqua subrecta fuscescente, puncto discali obscure fusco, spatio marginali subchalybeo, linea marginali fusca valde concisa extus pallido marginata; posticæ linea submarginali albida recta concisa intus fusco marginata, fascia exteriori dentata fusca.*

Female. Slaty cinereous, paler beneath. Head ochraceous. Wings broad, with a brownish oblique nearly straight middle band; discal point dark brown; marginal space with a slight chalybeous tinge; marginal line brown, very concise, pale-bordered on the outer side; under side with a blackish submarginal band, which is most distinct in the hind wings; the interior and exterior lines brownish, straight, parallel to the middle band; a brownish submarginal band, also parallel to the others. Hind wings with a whitish concise straight submarginal line, which is much more oblique than the other lines, is brown-bordered on the inner side, and is accompanied by a dentate brown band on the outer side. Length of the body 6 lines; of the wings 16 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 62. NOBILIA.

Mas et fœm. Corpus robustum. Proboscis conspicua. Palpi porrecti, graciles, caput perpaullo superantes; articulus 3us conicus, minimus. Antennæ maris subpectinatae, apices versus simplices. Pedes læves; anteriores longiusculi, sat graciles; posticæ femoribus tibiisque brevissimis subdilatatis, calcaribus duobus. Alæ elongatæ; anticæ vix acutæ, margine exteriori perobliquo; posticæ margine exteriori subflexo.

Male and female. Body stout. Proboscis distinct. Palpi porrect, slender, extending very little beyond the head; third joint conical, very minute. Antennæ of the male slightly pectinated to two-thirds of the length, smooth from thence to the tips. Legs smooth; anterior legs rather long and slender; hind femora and hind tibiæ slightly dilated, very short, the latter with apical spurs only. Wings ample, elongate. Fore wings hardly acute; costa and exterior border very slightly convex, the latter very oblique. Hind wings with the exterior border very slightly bent.

1. NOBILIA TURBATA.

Mas et fœm. *Cinerea, subtus læte ochracea; caput et thorax anticus cervina; alæ fusæ; anticæ vitta costali fasciaque obliqua angulata informi lunulam fuscam nigro strigatam includente cinereis, linea submarginali undulata cinerea; posticæ linea exteriori nigra tenui denticulata.*

Male and female. Cinereous, bright ochraceous beneath. Head and fore border of the thorax fawn-colour. Fore wings brown, excepting a costal stripe and an irregular oblique angular middle band, which contains a large brown black-streaked lunule; a cinereous undulating submarginal line, which is partly marginal. Hind wings brown, with a black exterior slender denticulated line, and with an undulating cinereous line, which is submarginal in front, marginal and dilated hindward. Length of the body 6—7 lines; of the wings 16—17 lines.

a, b. Sarawak, Borneo. From Mr. Wallace's collection.

Genus 63. OSTHA.

Fœm. Corpus sat gracile. Fasciculus frontalis productus. Proboscis brevis, tenuis. Palpi porrecti, caput perpaullo superantes; articulus 2us latiusculus; 3us conicus, minimus. Antennæ

subsetulosæ. Pedes læves, sat graciles; calcaria quatuor longissima. Alæ subelongatæ; anticæ acutæ, costa margineque exteriore rectis.

Female. Body rather slender. Frontal tuft prominent. Proboscis short, feeble. Palpi porrect, extending very little beyond the head; second joint rather broad; third conical, very minute. Antennæ minutely setulose. Legs smooth, rather slender; hind tibiæ with four very long spurs. Wings slightly elongate, moderately broad. Fore wings acute; costa and exterior border straight, the latter moderately oblique.

1. OSTHA SILENIATA.

Fœm. *Rufescente-cervina; caput et thorax anticus fusca; alæ lunula discali alba nigro marginata, lineis duabus nigris indistinctis undulatis denticulatis, punctis marginalibus nigris elongatis; anticæ punctis costalibus exterioribus nigris, puncto interiore discali albo aut nigro.*

Female. Reddish fawn-colour, darker beneath. Head and fore part of the thorax brown. Wings with a white black-bordered discal lunule; interior and exterior lines blackish, slender, indistinct, undulating, denticulated; marginal points black, elongated. Fore wings with black points along the apical part of the costa; discal lunule sometimes divided; an interior discal white black-bordered point, which is sometimes wholly black. Length of the body $2\frac{1}{2}$ —3 lines; of the wings 8—9 lines.

a, b. Ega. From Mr. Bates' collection.

Genus 64. GUSTIANA.

Mas. Corpus sat validum. Proboscis conspicua. Palpi porrecti, caput non superantes; articulus 3us minimus. Antennæ sat late pectinatæ, apice simplices. Pedes læves, sat validi; calcaria quatuor longa. Alæ subelongatæ, margine exteriore subflexo; anticæ acutæ, margine exteriore postico perobliquo.

Male. Body moderately stout. Proboscis distinct. Palpi porrect, not extending beyond the head; third joint very minute. Antennæ rather broadly pectinated, except at the tips. Legs smooth, moderately stout; hind tibiæ with four long spurs. Wings moderately broad, slightly elongate; exterior border distinctly bent. Fore wings acute; costa straight; exterior border very oblique hindward.

1. GUSTIANA SUBFLEXATA.

Mas. *Luteo-flava* ; *alæ non conspersæ, linea exteriori nigricante tenuissima undulata denticulata interrupta, litura discali e punctis tribus nigris, lunulis marginalibus nigris.*

Male. Luteous-yellow. Wings not speckled ; exterior line blackish, undulating, denticulated, interrupted, very slight and indistinct ; discal mark composed of three black points ; marginal lunules black. Length of the body 4 lines ; of the wings 12 lines.

Brazil. In Mr. Saunders' collection.

Genus 65. HILEIA.

Mas. Corpus sat validum. Proboscis brevis, tenuis. Palpi porrecti, lati, compressi, sat longi, subtus fimbriati ; articulus 3us parvus, conicus. Antennæ subpectinatae. Pedes læves, sat validi ; calcaria quatuor longa. Alæ sat angustæ, fimbria longa ; anticæ apice rotundatæ, margine exteriori perobliquo vix convexo.

Male. Body moderately stout. Proboscis short, slender. Palpi porrect, broad, compressed, fringed beneath, as long as the breadth of the head ; third joint minute, conical. Antennæ slightly pectinated. Legs smooth, rather stout ; hind tibiæ with four long spurs. Wings rather narrow ; fringe long. Fore wings rounded at the tips ; costa straight ; exterior border hardly convex, very oblique.

This genus has some resemblance to *Crambus*.

1. HILEIA CRAMBISATA.

Mas. *Pallidissime cervina* ; *alæ lineis nonnullis obliquis e punctis guttisque nigricantibus, linea exteriori subundulata magis determinata e lunulis nigris, punctis marginalibus nigris ; anticæ puncto discali nigro ; posticæ lineis subobsoletis.*

Male. Very pale fawn-colour. Wings with some transverse oblique irregular and incomplete lines, which are composed of blackish points and dots ; a more distinct exterior slightly undulating line, composed of black lunules ; marginal points black. Fore wings with a black discal point. Hind wings with the lines nearly obsolete, except towards the interior border. Length of the body 4 lines ; of the wings 10 lines.

a. North Hindostan. From Mr. James' collection.

Genus 66. GURIAUNA.

Fœm. Corpus sat robustum. Proboscis brevis. Palpi porrecti, angulati, supra fimbriati, caput longe superantes; articulus 3us parvus, conicus, declivis. Pedes læves, breviusculi, vix robusti; calcaria quatuor longa. Alæ spissæ, latiusculæ; anticæ acutæ, margine exteriori subconvexo sat obliquo; posticæ abdomen longe superantes.

Female. Body rather stout. Proboscis short. Palpi porrect, fringed above, extending much beyond the head and full as long as its breadth; third joint short, conical, decumbent, forming an angle with the second. Antennæ smooth. Legs smooth, rather short, hardly stout; hind tibiæ with four long spurs. Wings stout, rather broad. Fore wings acute; costa straight; exterior border slightly convex, rather oblique. Hind wings extending much beyond the abdomen.

1. GURIAUNA SEMIPARDATA.

Fœm. *Rufescens; caput obscure fuscum; alæ nigro subconspersæ, lineis tribus punctularibus maculisque tribus posticis punctisque marginalibus nigris; anticæ gutta discali maculaque antica marginali nigris, costa albo binotata.*

Female. Reddish, paler and with a cinereous tinge beneath. Head and palpi dark brown. Wings with a few black speckles; interior, middle and exterior lines indicated by black points; three black spots on the interior border; second and third spots especially large and almost confluent in the hind wings; marginal points black. Fore wings with a black discal dot, and with a large black spot on the fore part of the exterior border; costa irregularly black, with two white marks. Length of the body $3\frac{1}{2}$ lines; of the wings 12 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 67. OBOLCOLA.

Mas. Corpus gracile. Proboscis tenuis. Palpi breves, lati, porrecti, caput perpaullo superantes; articulus 3us minimus. Antennæ latissime pectinatæ. Pedes læves, graciles; calcaria quatuor breviuscula. Alæ anticæ acutæ, costa subconvexa, margine exteriori recto.

Male. Body slender. Proboscis feeble. Palpi short, broad, porrect, extending very little beyond the head; third joint extremely minute. Antennæ very broadly pectinated. Legs smooth, slender; hind tibiæ with four rather short spurs. Wings moderately broad. Fore wings acute; costa slightly convex; exterior border straight, moderately oblique.

1. OBOLCOLA INCONCLUSARIA.

Mas. *Pallide flavescens; alæ fusco nigroque subconspersæ, lineis duabus fuscis subparallelis nonnunquam subobsoletis, punctis marginalibus nigris; anticæ plaga submarginali liturisque costalibus fuscis, macula discali fusca aut cervina fusco marginata.*

Male. Pale yellowish. Wings thinly and minutely speckled with brown and black, more distinctly speckled beneath; interior and exterior lines brown, slender, nearly parallel, occasionally almost obsolete; marginal points black. Fore wings with a brown patch in the disk beyond the exterior line, and with some small brown marks along the costa; a large nearly round fawn-coloured brown-bordered discal spot, which is sometimes wholly brown. Length of the body 4—4½ lines; of the wings 9—10 lines.

a. South Africa. Presented by Sir A. Smith.

Genus 68. GYPSARA.

Mas. Corpus sat gracile. Proboscis robusta. Palpi brevissimi, latiusculi, decumbentes, subfimbriati; articulus 3us minimus. Antennæ late pectinatæ. Thoracis tegulæ longæ. Abdomen longiusculum. Pedes squamosi, sat validi; calcaria quatuor breviuscula. Alæ anticæ elongatæ, apice rotundatæ, costa vix convexa, margine exteriore perobliquo.

Male. Body rather slender. Proboscis robust. Palpi decumbent, very short, rather broad, slightly fringed; third joint extremely minute. Antennæ broadly pectinated. Thorax with long tegulæ. Abdomen rather long. Legs squamous, rather stout; hind tibiæ with four rather short spurs. Wings moderately broad. Fore wings elongate, rounded at the tips; costa and exterior border very slightly convex, the latter extremely oblique.

This genus has some resemblance to the *Boarmidæ*.

1. GYPSARA EXULARIA.

Mas. *Sordide cinerea ; caput et thorax fuscescentia ; alæ anticæ plagis tribus costalibus obscure fuscis ; posticæ litura discali fusca.*

Male. Dingy cinereous. Head and thorax brownish. Wings partly clouded with brownish beneath. Fore wings with three dark brown patches on the costa. Hind wings with a brown discal mark ; under side much more clouded than the fore wings, and with a black discal mark. Length of the body 7 lines ; of the wings 18 lines.

a. Cuenca, Province of Equador. From Mr. Fraser's collection.

The three following additional genera seem to have more affinity to the *Fidonidæ* than to any other family of *Geometrites*.

Genus 69. OBANA.

Fœm. Corpus robustum. Proboscis conspicua. Palpi graciles, oblique ascendentes, verticem non superantes ; articulus 3us conicus. Antennæ subsetulosæ. Pedes læves, graciles ; calcaria quatuor longa. Alæ anticæ apice rotundatæ, margine exteriori subconvexo ; posticæ subdentatæ.

Female. Body stout. Proboscis distinct. Palpi slender, obliquely ascending, not rising higher than the vertex ; third joint conical, less than one-fourth of the length of the second. Antennæ minutely setulose. Legs smooth, slender ; hind tibiæ with four long spurs. Wings moderately broad. Fore wings somewhat rounded at the tips ; costa straight ; exterior border slightly convex, moderately oblique. Hind wings slightly dentate.

1. OBANA VAGIPENNATA.

Fœm. *Pallide testacea ; alæ non conspersæ, lineis tribus e punctis nigricantibus, punctis marginalibus nigris ; anticæ linea interiore e punctis nigricantibus, litura apud angulum interiorem nigra.*

Female. Palpi testaceous, somewhat cinereous beneath. Wings not speckled ; middle, exterior and submarginal lines composed of irregular blackish points ; marginal points black. Fore wings with

an interior line of blackish points, and with a black mark near the interior angle. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 70. NECHESIA.

Fœm. Corpus robustum. Proboscis brevis. Palpi porrecti, lati, obtusi, caput perpaullo superantes; articulus 3us indistinctus. Antennæ graciles. Pedes læves, sat graciles; calcaria quatuor longa. Alæ fimbria longa; anticæ apice rotundatæ, costa recta, margine exteriori subconvexo sat obliquo.

Female. Body stout. Proboscis short. Palpi porrect, broad, very obtuse, extending very little beyond the head; third joint indistinct. Antennæ slender. Legs smooth, rather slender; hind tibiæ with four long spurs. Wings moderately broad; fringe long. Fore wings rounded at the tips; costa straight; exterior border slightly convex, rather oblique.

1. NECHESIA ALBOTENTATA.

Fœm. *Pallide ferruginea, subtus obscure cinerea; palpi nigricantes; alæ lineis duabus e punctis nigricantibus, punctis marginalibus nigris, linea indeterminata e punctis albis.*

Female. Pale ferruginous, dark cinereous beneath. Palpi blackish. Wings with a few blackish points, which indistinctly indicate two lines; marginal points black, distinct; an imperfect line of white points, which are largest on the interior border. Length of the body $3\frac{1}{2}$ lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

2. NECHESIA? MUNDICOLARIA.

Fœm. *Ferrugineo-rufescens; palpi nigricantes; alæ lineis tribus e punctis nigris, linea exteriori pallida undulata indistincta, linea submarginali nigricante diffusa undulata pallido marginata, punctis marginalibus nigris; anticæ macula postica nigricante; costa exteriori albido punctata.*

Female. Ferruginous-reddish, darker beneath. Palpi blackish, extending somewhat beyond the head; third joint minute but distinct. Wings with three lines indicated by black points; the third accompanied by a pale indistinct undulating line; a blackish diffuse

undulating pale-bordered submarginal line; marginal points black, rather large. Fore wings with a blackish spot on the outer part of the interior border; costa with some whitish points towards the tip. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

Genus 71. NEGETA.

Mas. Corpus robustum. Palpi læves, graciles, lanceolati, porrecti, caput paullo superantes; articulus 3us elongatus. Antennæ setulosæ, pubescentes. Pedes læves, breviusculi, sat validi; calcaria quatuor longissima. Alæ latiusculæ, breviusculæ; anticæ acutæ, costa margineque exteriori subconvexis.

Male. Body stout. Palpi smooth, slender, lanceolate, porrect, extending a little beyond the head; third joint elongate. Antennæ setulose, pubescent. Legs smooth, rather short and stout; hind tibiæ with four very long spurs. Wings rather short and broad. Fore wings acute; costa and exterior border slightly convex, the latter rather oblique.

1. NEGETA CONTRARIATA.

Mas. *Pallide testacea; alæ anticæ linea ochracea recta obliqua, linea submarginali e punctis nigricantibus; posticæ albido-cinereæ, margine lato obscuriore, punctis marginalibus nigris.*

Male. Pale testaceous. Fore wings with a straight slender ochraceous line, which extends from two-thirds of the length of the interior border towards the tip; submarginal line composed of a few blackish points. Hind wings whitish cinereous, with a broad dark cinereous border; marginal points black. Length of the body 4 lines; of the wings 10 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

The following genus perhaps belongs to the *Fidonidæ*, and may be nearest allied to *Aspilates*.

Genus MICROSEMA.

Microsema, Hubn. Verz. Schm. 301.

MICROSEMA QUADRIPUNCTARIA.

Mas. *Flavo-testacea; alæ puncto discali fusco, fasciis duabus angustis obliquis fuscis; anticæ 1a antemedia, 2a postmedia; posticæ 1a media, 2a submarginali.*

Microsema quadripunctaria (Geometra ampla, Erastria derivata), *Hubn. Samml. Exot. Schmett. ii. 39, 197, f. 393, 394; Verz. Schm. 301, 2908.*

Bahia.

Fam. 16. ZERENIDÆ.

Corpus sæpissime gracile. Frons vix arcuata, nunquam producta. Oculi magni. Proboscis bene determinata. Palpi graciles, brevissimi, non connexi, frontem sæpissime non superantes. Antennæ maris nonnunquam late pectinatæ. Thorax brevis. Abdomen longum, sæpe guttatum. Pedes breviusculi, nunquam pilosi; tibiæ posticæ sæpe incrassatæ. Alæ amplæ, integræ, pallidæ, maculis aut lineis obscuris; anticæ raro falcatae aut angulatæ; posticæ margine exteriori subsinuato.

Zerenidæ, *Guen. Phal. ii. 195.*

Body generally slender. Head slightly connected with the thorax; front hardly tumid, never prominent. Eyes large. Proboscis well developed. Palpi slender, apart, very short, rarely extending beyond the front. Antennæ of the male sometimes broadly pectinated, sometimes merely incrassated. Thorax short; tegulæ remote from each other. Abdomen often with black dots, long and attenuated in the male. Legs rather short, never pilose; hind tibiæ often incrassated. Wings ample, entire, generally white or yellow, with dark dots or lines. Fore wings rarely falcate or angular. Hind wings with the exterior border slightly excavated.

A. Pedes non gracillimi.

A. Antennæ in utroque sexu pectinatæ.

A. Alæ non semihyalinæ.

a. Tibiæ vix incrassatæ. - - - 8. FULGURODES, *Guen.*

b. Tibiæ incrassatæ. - - - 9. PERIGRAMMA, *Guen.*

B. Alæ semihyalinæ. - - - 11. BOMBYCODES, *Guen.*

B. Antennæ fœm. non pectinatæ.

A. Abdomen discolor. - - - 1. PANÆTHIA, *Guen.*

B. Abdomen non discolor.

- a. Palpi ascendentes.**
- i. Corpus robustum.**
- * Antennæ maris pectinatæ.
- † Alæ maculatæ. - - - 2. RHYPARIA, *Hubn.*
- †† Alæ non maculatæ. - - - 14. NIPTERIA, *Guen.*
- ** Antennæ maris non pectinatæ.
- † Antennæ maris glabræ.
- ‡ Alæ plagiatae. - - - 3. PANTHERA, *Hubn.*
- †† Alæ non plagiatae. - - - 19. NELCYNDA, *Walk.*
- †† Antennæ maris setulosæ, pubescentes.
10. PERCNIA, *Guen.*
- ii. Corpus gracile.**
- * Abdomen maculatum. - - - 15. OBEIDIA, *Walk.*
- ** Abdomen non maculatum.
- * Abdomen non breve. - - - 5. LIGDIA, *Guen.*
- ** Abdomen breve. - - - 6. LOMASPILIS, *Hubn.*
- b. Palpi non ascendentes.**
- i. Alæ posticæ non dentatæ.**
- * Abdomen maculatum.
- † Antennæ maris non glabræ.
- ‡ Antennæ maris non late pectinatæ.
4. ABRAXAS, *Leach.*
- †† Antennæ maris late pectinatæ.
18. NASSUNIA, *Walk.*
- †† Antennæ maris glabræ. - 16. ONELLATA, *Walk.*
- ** Abdomen non maculatum.
- † Antennæ maris non pectinatæ.
12. ORTHOSTIXIS, *Hubn.*
- †† Antennæ maris pectinatæ. - 13. ZERENE, *Treit.*
- ii. Alæ posticæ dentatæ.** - - - 17. NARTHECUSA, *Walk.*
- B. Pedes gracillimi.** - - - - - 7. STALAGMIA, *Guen.*

The genera *Cosmotodes* and *Absyrtes*, which Guenée combines with the *Zerenidæ*, have been already noticed in this Catalogue. *Cosmetodes* is a synonym of *Simena* (*Cat. Lep.* 1st. Ser. 1728), and *C. Joaria* is the same as *S. luctifera*. *Absyrtes* is a synonym of *Thalaina* (*Cat. Lep.* 1st. Ser. 659).

Genus 1. PANÆTHIA.

Corpus cylindricum, sat validum. Proboscis robusta. Palpi breves, porrecti, arcuati, remoti; articulus 3us minimus. Antennæ maris pubescentes. Pedes robusti, læves. Alæ elongatæ, fasciis

macularibus; anticæ apice rotundatæ, costa subconvexa, margine exteriori perobliquo.

Panæthia, *Guen. Phal.* ii. 196.

Deileptenia, p., *Hubn. Verz. Schm.* 317.

Body cylindrical, moderately stout. Proboscis robust. Palpi short, porrect, curved, apart from each other, extending a little beyond the head; third joint very minute. Antennæ of the male pubescent. Legs stout, smooth; hind tibiæ with four spurs, of which the first pair are much longer than the apical pair. Wings elongate, with macular bands. Fore wings somewhat rounded at the tips; costa and exterior border slightly convex, the latter very oblique.

1. PANÆTHIA HYPANARIA.

Cinerea; alæ linea exteriori duplicata undulata, lineis submarginali et marginali macularibus maculaque discali rotundata nigricantibus.

Phalæna Hypanus, *Cram. Pap. Exot.* ii. pl. 142, f. D.

Deileptenia Hypanaria, *Hubn. Verz. Schm.* 317, 3055.

Panæthia Hypanaria, *Guen. Phal.* ii. 196, 1244.

This species may be one of the *Boarmidæ*.

Surinam.

2. PANÆTHIA GEORGIATA.

Glaucocinerea; thorax nigro trimaculatus; abdomen luteum, basi cinereum; alæ lineis guttularibus strigisque marginalibus nigricantibus, gutta discali nigra; anticæ sexlineatæ; posticæ quadrilineatæ; quatuor subtus vix lineatæ, macula discali nigricante.

Panæthia Georgiata, *Guen. Phal.* ii. 196, 1243.

Borneo.

3. PANÆTHIA ARYCANDATA.

Fœm. Schistaceo-glauca; thorax nigro quadrimaculatus; alæ elongatæ, fasciis tribus e maculis nigris plus minusve elongatis, lineis duabus elongatis nigris; anticæ apice subrotundatæ, margine exteriori valde obliquo.

Female. Schistaceous-glaucous. Antennæ smooth. Thorax with two black spots on each side. Legs rather stout; hind tibiæ

not incrassated. Wings elongate, with three bands of black more or less elongated spots; two undulating black lines between the first and second bands; these lines are very incomplete in the hind wings; under side with the first band obsolete. Fore wings somewhat rounded at the tips; costa almost straight; exterior border slightly convex, very oblique; under side with a diffuse interior discal blackish spot. Length of the body 7? lines; of the wings 24 lines.

Sarawak, Borneo. In Mr. Saunders' collection.

4. PANÆTHIA PERVASATA.

Fœm. Glauco-cinerea; thorax nigro guttatus; alæ elongatæ, ochraceo trivittatæ, lineis sex guttularibus nigris, macula subtus magna discali nigra, lineis subtus duabus exterioribus diffusis nigricantibus.

Female. Glaucous-cinereous. Thorax with black dots. Hind tibiæ slightly incrassated. Wings elongated; each with three ochraceous stripes; fore stripe very incomplete; six transverse lines of black dots; the sixth at some distance from the exterior border; under side with a rather large black discal spot, largest in the fore wings, and with two diffuse exterior blackish lines. Fore wings hardly acute; costa and exterior border very slightly convex, the latter rather oblique. Length of the body 8? lines; of the wings 28 lines.

a. Java. From Mr. Argent's collection.

5. PANÆTHIA MATUTINATA.

Fœm. Glauca; caput supra, thoracis tegulæ et abdomen ochracea; thorax maculis nigris duabusque humeralibus ochraceis; alæ elongatæ, vittis quatuor fasciæque marginali ochraceis, macula discali fasciisque quatuor macularibus nigris, fascia subtus submarginali latissima nigricante; anticæ apice rotundatæ, margine exteriori perobliquo.

Female. Glaucous. Head and abdomen ochraceous; the former blackish in front. Thorax with black spots; an ochraceous spot on each shoulder. Hind tibiæ slightly dilated. Wings elongate, ochraceous along the exterior border, and with four more or less incomplete ochraceous stripes on each wing; a black discal spot and eight slightly undulating somewhat irregular bands of black spots; under side without markings, except the black discal spot and a

very broad blackish submarginal band. Fore wings somewhat rounded at the tips; costa and exterior border very slightly convex, the latter very oblique. Length of the body 9 lines; of the wings 28 lines.

a. Australia. Presented by E. Doubleday, Esq.

b. Moreton Bay. From Mr. Diggles' collection.

Genus 2. RHYPARIA.

Corpus robustum, cylindricum. Proboscis conspicua. Palpi breves, validi, ascendentes, truncati; articulus 3us brevissimus. Antennæ maris sat late pectinatae. Pedes validi, laeves; tibiæ posticæ incrassatae, calcaribus parvis. Alæ amplæ, fasciis macularibus; anticæ subacutæ, plus minusve elongatæ, costa recta.

Rhyparia, *Hubn. Verz. Schm.* 305; *Leder.*; *Guen. Phal.* ii. 197.

Zerene, p., *Treit.*; *Dup.*; *Herr.-Sch.*

Fidonia, p., *Boisd.*

Body stout, cylindrical. Proboscis distinct. Palpi stout, ascending, truncated, very short, not nearly rising to the front; third joint extremely short. Antennæ of the male rather broadly pectinated. Legs stout, smooth; hind tibiæ incrassated; spurs rather short; apical pair shorter than the first pair. Wings ample, with macular bands. Fore wings slightly acute, more or less elongated; costa straight; exterior border slightly convex, rather oblique.

1. RHYPARIA MELANARIA.

Lutescens, subtus lutea; thorax nigro-cinereus; abdomen vitta dorsali maculisque lateralibus nigris; alæ anticæ albæ, fasciis 7 aut 8 e maculis nigris; posticæ e maculis nigris subquadri-fasciatæ.

———, *De Vill. Ent. Linn.* ii. 305, 425.

Phalæna-Geometra melanaria, *Linn. Syst. Nat.* i. 2, 862, 212; *Faun. Suec.* 1240. *Clerck, Icon.* pl. 4, f. 2. *Gmel. ed. Syst. Nat.* i. 5, 2461, 212.

Phalæna melanaria, *Fabr. Sp. Ins.* ii. 247, 34; *Mant. Ins.* 189, 44; *Ent. Syst.* iii. 2, 145, 51.

Geometra melanaria, *Knoch, Beytr.* i. 11, pl. 1, f. 3. *Bork. Eur. Schm.* v. 473, 231. *Esp. Schm.* v. 115, pl. 23, f. 1. *Fuessl. N. Mag.* i. 2, 216. *Hubn. Geom.* pl. 16, f. 86. *Haw. Lep. Brit.* 316.

Zerene melanaria, *Treit. Schm.* vi. 2, 236, 10. *Dup. Lep.* iv. 414, pl. 164, f. 3. *Herr.-Sch. Eur. Schm.* iii. 64, 160.

Rhyparia melanaria, *Hubn. Verz. Schm.* 305, 2938.

Fidonia melanaria, *Boisd. Ind.* 191, 1513.

a—c. Europe. From M. Becker's collection.

2. RHYPARIA LUPARIA.

Cinerea; abdomen ochraceum, basi cinereum; alæ lineis plus minusve macularibus et dentatis nigricantibus, fascia exteriorē diffusa interrupta sordide ochracea, gutta discali nigra.

Rhyparia luparia, *Guen. Phal.* ii. 198, 1245, pl. 16, f. 5.

a. Rio Janeiro. From Mr. Stevens' collection.

3. RHYPARIA JAGUARIA.

Glauco-cinerea; alæ macula magna discali fasciisque tribus exterioribus macularibus nigris; anticæ fascia interiorē maculari maculaque basali nigris; posticæ extus luteæ. Var.—*Alæ albidæ.*

Rhyparia Jaguaria, *Guen. Phal.* ii. 198, 1246.

a—f. North China. From Mr. Fortune's collection.

4. RHYPARIA DUCTARIA.

Mas. *Pallide cinerea*, ochraceo subtineta; antennæ late pectinatæ; thorax nigro guttatus; abdomen e guttis nigris bivittatum; alæ elongatæ, fasciis vix conspicuis subobscurioribus, gutta discali lineisque octo e guttis nigricantibus; anticæ acutæ, subtus apice fuscescentes, margine exteriorē perobliquo.

Male. Pale cinereous, here and there with an ochraceous tinge. Antennæ broadly pectinated. Thorax with several black dots. Abdomen with two rows of black dots. Wings elongate, ample, with indications of slightly darker bands, with a blackish discal dot, and with eight lines of blackish dots; eighth line marginal; under side with the discal dot more conspicuous. Fore wings acute; costa and exterior border hardly convex, the latter very oblique; under side brownish towards the tips. Length of the body 9 lines; of the wings 24 lines.

a. Hindostan. Presented by Sir John Hearsay.

5. RHYPARIA? TRANSECTATA.

Mas. *Obscure ochracea; corpus fuscum; antennæ subpectinatæ; alæ latæ; anticæ acutæ, fasciis octo obliquis macularibus nigricantibus, venis pallidis, margine exteriori sat obliquo; posticæ late ochraceæ, minus fasciatæ.*

Male. Dark ochraceous. Body brown. Antennæ slightly pectinated. Wings broad. Fore wings acute, with eight oblique bands of blackish spots, which are somewhat intersected by the paler veins; under side brighter ochraceous; costa and exterior border almost straight, the latter rather oblique. Hind wings bright ochraceous, with fewer bands; their spots with a slight metallic tinge. Length of the body 8 lines; of the wings 24 lines.

a. Himalaya Mountains. From Major Parry's collection.

The following species hardly belongs to this genus, and may be one of the *Boarmidæ*.

6. RHYPARIA? VIRGINIARIA.

Cinerea, nigro conspersa; alæ fuscescente guttatæ, striga discali lineaque exteriori integra lineisque tribus exterioribus e lunulis nigricantibus; anticæ linea interiori abbreviata lineaque media nigricantibus.

Phalæna-Geometra Virginiaria, *Cram. Pap. Exot.* iii. 149, pl. 275, f. G.

Dryocoetis Virginiaria, *Hubn. Verz. Schm.* 316, 3045.

Virginia.

Genus 3. PANTHERA.

Corpus sat robustum. Proboscis valida. Palpi breves, lanceolati, ascendentes; articulus 3us minimus. Antennæ maris validæ, læves. Pedes robusti, læves. Alæ latæ, plagiatae; anticæ vix acutæ, costa margineque exteriori convexis.

Panthera, *Hubn. Verz. Schm.*

Pantherodes, *Guen. Phal.* ii. 199.

Body moderately stout. Proboscis robust. Palpi lanceolate, ascending, not rising so high as the front; third joint extremely minute. Antennæ of the male stout. Legs stout, smooth; hind tibiæ with four moderately long spurs. Wings broad, with large

dark pupillated spots. Fore wings hardly acute; costa and exterior border convex, the latter slightly oblique.

Perhaps all the *Pantheræ* here recorded may belong to one species, in the ordinary acceptation of that term. The Mexican specimens of *P. pardalaria* are probably the *P. unciaria* of Guenée.

1. PANTHERA PARDALARIA.

Læte lutea; alæ maculis magnis rotundatis cinereis nigro pupillatis aut nigris atro pupillatis.

Panthera pardalaria, Hubn. Zutr. Schm. ii. 25, 68, f. 335, 336; Verz. Schm. 305, 2939.

Phalæna perspicillaris, Perty, Del. Anim. Artic. pl. 32, f. 11.

Pantherodes pardalaria, Guen. Phal. 200, 1248, pl. 14, f. 7.

a. Brazil. From Mr. Stevens' collection.

b, c. Venezuela. From Mr. Dyson's collection.

d. Mexico. From M. Sallé's collection.

e. ———? Presented by E. Doubleday, Esq.

f. ———? From Mr. Milne's collection.

2. PANTHERA UNCIARIA.

Mas et fœm. *P. pardalariæ minor, P. colubrarix valde affinis; abdomen flavum, fœm. maculis trigonis segmentisque duobus apicalibus nigricantibus; alæ posticæ maculis magis nigris vix pupillatis, macula discali minori magis rotundata.*

Pantherodes unciaria, Guen. Phal. ii. 201, 1250.

P. pardalaria, var. ?

Mexico.

3. PANTHERA COLUBRARIA.

Mas et fœm. *P. pardalaria major; abdomen cinereum; alæ anticæ olivaceo suffusæ; posticæ aurato-flavæ, apud marginem interiorem cinereo tinctæ; macula majore, fundo magis cinereo.*

Var. *Alæ anticæ magis olivaceæ, macula bipupillata postice producta acuta; posticæ pallidiores, macula discali parva.*

Pantherodes colubraria, Guen. Phal. ii. 200, 1249.

P. pardalaria, var. ?

Colombia. Brazil.

4. PANTHERA LEONARIA.

Læte lutea ; corpus nigrum ; alæ breviusculæ, latiusculæ ; anticæ maculis septem nigris vix pupillatis, duabus marginalibus connexis, margine exteriori vix obliquo ; posticæ maculis sex nigris, tribus marginalibus connexis.

Pantherodes leonaria, *Guen. Phal.* ii. 201, 1251.

Monte Video.

a. Spirito Sancto. From Mr. Stevens' collection.

Genus 4. ABRAXAS.

Corpus gracile. Frons angusta, plana. Proboscis conspicua. Palpi graciles, remoti, porrecti aut incumbentes ; articuli indistincti. Antennæ maris pubescentes aut subpectinatae. Abdomen longum, cylindricum, nigro maculatum. Pedes graciles ; tibiæ posticæ plus minusve incrassatæ, calcaribus quatuor approximatis. Alæ amplæ, velutinæ, nigro maculatæ.

Abraxas, *Leach ; Steph. ; Guen. Phal.* ii. 201.

Rhyparia, p., et Calospilos, *Hubn. Verz. Schm.* 305.

Zerene, p., *Treit. ; Dup. ; Boisd. ; Herr.-Sch. ; Leder.*

Body slender. Front narrow, flat. Proboscis moderately long and stout. Palpi slender, porrect or incumbent, apart from each other ; joints indistinct. Antennæ of the male pubescent. Abdomen long, cylindrical, with rows of black spots. Legs slender ; hind tibiæ more or less incrassated, with four approximate spurs of moderate length. Wings ample, velvety, very generally with black spots, some of which are often confluent.

Note. *Zerene dilacerata* and *Z. integrata* (*Zett. Ins. Lapp.* 967, 3, 4), may belong to this genus.

Europe.

1. ABRAXAS GROSSULARIATA.

Alba ; corpus luteum, nigro maculatum ; alæ fasciis macularibus nigris plus minusve determinatis ; anticæ basi fasciæque undulata luteis.

———, *Mouffet, Ins.* 96, 10. *Göed. Ins.* i. 67, pl. 31.
Albin, Ins. pl. 43, f. 71. *Rai, Ins.* 178, 179. *Frisch, Ins.* iii. pl. 2. *Merian, Ins. Eur.* i. pl. 29. *Blank. Ins.* pl. 7, f. F—H.
Roës. Ins. i. pl. 2. *Geoff. Ins.* ii. 136, 56. *De Vill. Ent. Linn.* ii. 338, 518.

- Phalæna-Geometra grossulariata*, Linn. *Syst. Nat.* i. 2, 867, 242; *Faun. Suec.* 1261. Gmel. ed. *Syst. Nat.* i. 5, 2472, 242.
- Phalæna grossulariata*, Fabr. *Sp. Ins.* ii. 257, 88; *Mant. Ins.* ii. 200, 132; *Ent. Syst.* iii. 2, 174, 162. Scop. *Ent. Carn.* 219, 544. Rossi, *Faun. Etr.* ii. 193, 1165.
- Geometra grossulariata*, Wien. *Verz.* 115, 11. Ill. N. *Ausg. dess.* i. 467, 11. Bork. *Eur. Schm.* v. 467, 229. Schr. *Faun. Boic.* ii. 2, 50, 1686. Mull. *Faun. Frid.* 49, 435; *Zool. Dan.* 126, 1458. Hubn. *Geom.* pl. 16, f. 81, 82. Haw. *Lep. Brit.* 316.
- Zerene grossulariata*, Treit. *Schm.* vi. 2, 237, 11. Dup. *Lep.* v. 238, pl. 187, f. 1. Boisd. *Ind.* 218, 1804. Herr.-Sch. *Eur. Schm.* iii. 64, 161.
- Rhyparia grossulariata*, Hubn. *Verz. Schm.* 305, 2937.
- Abraxas grossulariata*, Steph. *Ill. Brit. Haust.* iii. 247, 3. Guen. *Phal.* ii. 204, 1257.
- Var. ? Phalæna-Geometra grossulariata*, Cram. *Pap. Exot.* iv. 162, pl. 372, f. A.

Berbice.

a—qq. England. From Mr. Stephens' collection.

rr—ww. England.

xx—aaa. Europe. From M. Becker's collection.

bbb. France.

ccc, ddd. ——— ?

2. ABRAXAS ULMATA.

Alba ; corpus luteum, nigro maculatum ; alæ fasciis macularibus glauco-cinereis, plaga postica nigricante ochraceo marginata ; anticæ plaga basali nigricante ochraceo marginata.

———, De Vill. *Ent. Linn.* ii. 363, 569.

Geometra ulmata, Sepp. *Schm.* i. pl. 3, f. 1—8. Fabr. *Sp. Ins.* 94; *Ent. Syst.* iii. 2, 176, 171. Gotze, *Ent. Beitr.* iii. 3, 416, 281. Panz. *Faun. Germ.* 22. Hubn. *Geom.* pl. 16, f. 85; pl. 76, f. 391, 392. Don. *Brit. Ins.* ix. pl. 293, f. 1. Haw. *Lep. Brit.* 317.

Phalæna sylvata, Scop. *Ent. Carn.* 220, 546.

Geometra pantaria, Wien. *Verz.* 115, 12.

Geometra pantherata, Hubn. *Beitr.* ii. 2, 47, pl. 2, f. N. Bork. *Eur. Schm.* v. 230.

Zerene ulmaria, Treit. *Schm.* vi. 2, 240, 12. Dup. *Lep.* v. 241, pl. 187, f. 2. Boisd. *Ind.* 218, 1805. Herr.-Sch. *Eur. Schm.* iii. 64, 162.

Calospilos ulmaria, Hubn. *Verz. Schm.* 305, 2940.

Abraxas ulmata, *Steph. Ill. Brit. Haust.* iii. 246, 1. *Guen. Phal.* ii. 206, 1261.

a. England. Presented by J. C. Dale, Esq.

b—o. England. From Mr. Stephens' collection.

p—v. England.

u, w. Ireland. From Mr. Bouchard's collection.

x—aa. Europe. From M. Becker's collection.

3. ABRAXAS PANTARIA.

Alba ; corpus luteum, nigro maculatum ; alæ guttis nonnullis plagaque postica ochraceis ; anticæ basi ochraceæ.

———, *De Vill. Ent. Linn.* ii. 308, 431.

Phalæna-Geometra Pantaria, *Linn. Syst. Nat.* i. 2, 863, 218.

Gmel. ed. Syst. Nat. i. 5, 2463, 218.

Geometra pantaria, *Esp. Schm.* v. 268, pl. 47, f. 5. *Ill. N. Ausg. dess.* i. 468, 12. *Gotze, Ent. Beitr.* iii. 306, 218. *Hubn. Geom.* pl. 16, f. 84. *Haw. Lep. Brit.* 317.

Zerene pantaria, *Treit. Schm.* vi. 2, 242, 13. *Dup. Lep.* v. 244, pl. 187, f. 3. *Boisd. Ind.* 218, 1806. *Herr.-Sch. Eur. Schm.* iii. 64, 163.

Calospilos pantharia, *Hubn. Verz. Schm.* 305, 2941.

Abraxas pantaria, *Steph. Ill. Brit. Haust.* iii. 246, 2, pl. 32, f. 1. *Guen. Phal.* ii. 206, 1263.

a, b. England. From Mr. Stephens' collection.

c. England.

d, e. Europe. From M. Becker's collection.

f. Marseilles.

g. Spain. Presented by B. Frend, Esq.

4. ABRAXAS CALARIA.

Alba, A. pantariæ simillima, minor ; alæ anticæ maculis tribus ochraceis, 1a basali, 2a costali, 3a apud marginem interiorem.

Abraxas Calaria, *Guen. Phal.* ii. 207, 1264.

A. pantaria, var. ?

Gibraltar.

North America.

5. ABRAXAS ? RIBEARIA.

Pallide flavescens ; alæ fascia (mari maculari aut subobsoleta, fœm. indeterminata) obscuriore.

Abraxas ? ribearia, Fitch, Trans. Soc. Agric. New York, vii. ; 3rd Rep. Ins. New York, 109. Newman's Zool. ix. 3272. Guen. Phal. ii. 208, 1268.

United States.

Asia.

A. Alæ luteæ.

A. Alæ vittulis nullis. - - - - - tigrata, Guen.

B. Alæ vittulis marginalibus. - - - - - hemionata, Guen.

B. Alæ non luteæ.

A. Alæ anticæ plaga postica ochracea.

A. Alæ angustiores.

a. Statura major. - - - - - martaria, Guen.

b. Statura minor. - - - - - leopardinata, Koll.

B. Alæ latiores. - - - - - spontaneata, Walk.

B. Alæ anticæ plaga nulla ochracea.

B. Alæ anticæ non lineato fasciatæ.

a. Alæ posticæ non dilatatæ.

i. Alæ posticæ non vittatæ.

* Alæ non angustæ.

† Alæ lituris bene determinatis.

‡ Statura magna.

§ Caput non nigrum.

× Alæ fasciis confluentibus.

lapsariata, Walk.

×× Alæ fasciis non confluentibus.

giraffata, Guen.

§§ Caput nigrum. - - - capitata, Walk.

‡ Statura non magna.

§ Alæ anticæ productæ. - fasciaria, Guer.

§§ Alæ anticæ non productæ. languidata, Walk.

†† Alæ lituris vix conspicuis. - detritaria, Walk.

* Alæ angustæ. - - - lithosiata, Walk.

ii. Alæ posticæ vittatæ.

* Alæ candidæ. - - - compositata, Guen.

- ** Alæ sordidæ. - - metachromata, *Walk.*
 b. Alæ posticæ dilatatæ. - - - - - amplificata, *Walk.*
 B. Alæ anticæ lineato fasciatæ.
 a. Statura major. - - - - - junctilineata, *Walk.*
 b. Statura minor. - - - - - plurilineata, *Walk.*

6. ABRAXAS TIGRATA.

Lutea ; corpus nigro maculatum ; alæ fasciis macularibus deviis nigris. Var. β .—*Alæ posticæ flavescence-albæ, luteo marginatæ.* Var. γ .—*Alæ quatuor flavescence-albæ, luteo marginatæ.*

Abraxas tigrata, *Guen. Phal. ii. 202, 1252.*

a. Hong Kong. Presented by Major Champion.

b—h. North China. From Mr. Fortune's collection.

i. Hong Kong. Presented by J. C. Bowring, Esq.

j. Penang. Presented by the Secretary of the India Board.

7. ABRAXAS GIRAFFATA.

Alba, subtus lutea ; thorax nigricante maculatus, antice luteus ; abdomen luteum e maculis quadratis nigricantibus bivittatum ; alæ anticæ fasciis quinque macularibus indeterminatis nigricantibus ; posticæ trifasciatæ.

Abraxas giraffata, *Guen. Phal. ii. 205, 1258.*

Hindustan.

a, b. North China. From Mr. Fortune's collection.

8. ABRAXAS MARTARIA.

Alba, A. ulmatæ affinis ; corpus luteum ; thorax nigro maculatus ; abdomen maculis dorsalibus guttisque lateralibus nigris ; alæ fasciis tribus macularibus cinereis, 3a marginali, plaga apud marginem interiorem obscure ochracea ; anticæ basi obscure ochracea. Var. β .—*Alæ vix fasciatæ.* Var. γ .—*Alæ anticæ cinereo suffusæ.*

Abraxas martaria, *Guen. Phal. ii. 205, 1258.*

North Hindostan.

This species is hardly distinguishable from *A. leopardinata*, except by its larger size ; and both are variable as to size and markings, and may be considered as Asiatic forms of *A. ulmata*.

- a. Shanghai. From the collection of the Entomological Society.
- b, c. North China. From Mr. Fortune's collection.
- d. Hindostan. From the collection of the Entomological Society.
- e. Landoor. Presented by Sir John Hearsay.
- f, g. Silhet. From Mr. Sowerby's collection.
- h. Silhet. From the Rev. J. Stainforth's collection.
- i, j. Silhet. Presented by E. Doubleday, Esq.

9. ABRAXAS LEOPARDINATA.]

Alba, A. martariæ minor; corpus luteum, nigro maculatum; alæ fasciis duabus cinereis macularibus nonnunquam integris et latissimis, plaga angulum interiorem versus obscure ochracea; anticæ basi obscure ochraceæ.

Abraxas leopardinata, Koll. V. Hug. Kasch. 490. Guen. Phal. ii. 206, 1262.

- a. Hindostan. From the collection of the Entomological Society.
- b. Silhet. From the Rev. J. Stainforth's collection.
- c, d. Silhet. Presented by E. Doubleday, Esq.
- e, f. North China. From Mr. Fortune's collection.
- g. Penang. Presented by the Secretary of the India Board.
- h, i. North Hindostan. Presented by the Secretary of the India Board.
- j. Hindostan. Presented by Sir John Hearsay.
- k. Shanghai. From the collection of the Entomological Society.
- l, m. Nepaul. Presented by Major-General Hardwicke.
- n. Hong Kong. Presented by J. C. Bowring, Esq.
- o. North Hindostan. Presented by Capt. Strachey.

10. ABRAXAS FASCIARIA.

Flavescente-alba; corpus luteum; thorax nigro maculatus; abdomen lineis tribus macularibus nigris; alæ fascia exteriori maculari punctisque nonnullis nigro-cinereis; anticæ productæ, maculis costalibus nigro-cinereis, margine exteriori nigro-cinereo.

Zerene fasciaria, Guér. Voy. Deless. Hist. Nat. 96, pl. 26, f. 5.
Abraxas fasciaria, Guen. Phal. ii. 205, 1260.

- a. South Hindostan. Presented by M. J. Walhouse, Esq.

11. ABRAXAS COMPOSITATA.

Alba ; thorax antice et caput lutea ; abdomen luteum, vittis duabus macularibus fuscis, basi album ; alæ vitta fasciæque exteriore cinereis, hac ex parte ochracea lituris nigris arcuatis aut angulatis, linea exteriore guttulari strigulisque marginalibus cinereis ; anticæ costa basali, fasciis duabus postice abbreviatis apicibusque cinereis.

Abraxas compositata, Guen. *Phal.* ii. 207, 1266.

North China.

a. Hindostan. Presented by Sir John Hearsay.

b, c. Darjeeling. Presented by the Secretary of the India Board.

d. Nepaul. Presented by Major-General Hardwicke.

12. ABRAXAS HEMIONATA.

Lutea ; thorax fusco univittatus ; abdomen fusco fasciatum ; alæ strigis transversis, fasciis duabus undulatis vittulisque marginalibus schistaceo-fuscis.

Abraxas hemionata, Guen. *Phal.* ii. 208, 1267.

a. China. From Mr. Lamb's collection.

b—f. North China. From Mr. Fortune's collection.

13. ABRAXAS SPONTANEATA.

Mas. *Alba ; caput nigrum, antice cinereum ; thorax nigro maculatus ; abdomen e maculis nigricantibus subquadratis bivittatum ; alæ latiusculæ, macula discali, linea exteriore maculari incompleta fasciæque marginali cinereis ; anticæ basi ochraceæ nigricante punctatæ, plagis duabus apud marginem exteriorem nigricante-ochraceis ; posticæ macula apud marginem interiorem cinerea ochraceo notata.*

Male. White. Body luteous. Head black, cinereous in front. Palpi black above. Thorax with black spots. Abdomen with two rows of large blackish subquadrate spots. Wings rather broad, with a cinereous discal spot, which is largest in the fore wings, and with a very incomplete exterior line of cinereous spots ; a marginal cinereous band, which is irregular and almost interrupted in the fore wings and is composed of confluent spots in the hind wings. Fore wings acute, ochraceous and with blackish points at the base,

and with two large blackish ochraceous patches on the interior border; costa and exterior border very slightly convex. Hind wings with a cinereous ochraceous-marked spot on the interior border. Length of the body 8 lines; of the wings 28 lines.

This species is nearly allied to *A. martaria*, but the fore wings are differently marked at the base, and the second patch on the interior border is further from the interior angle than is the single patch of *A. martaria*.

a. North Hindostan. From Captain Reid's collection.

14. ABRAXAS CAPITATA.

Fœm. Alba; caput nigrum; abdomen cinereum, segmentis albo marginatis; alæ latæ, fascia latissima antice dilatata et sub-interrupta fasciæque exteriore antice abbreviata cinereis, guttis submarginalibus nigricantibus; anticæ fasciis duabus basalibus dentatis cinereis, litura discali obscure fusca.

Female. White. Head, palpi and antennæ black. Antennæ stout, smooth. Abdomen cinereous; hind borders of the segments and tip white. Wings broad, not long, with a very broad cinereous band, which is obsolete towards the costa in the hind wings, and is dilated and nearly interrupted in the disk in the fore wings; an exterior cinereous band, which is much abbreviated in front and especially so in the fore wings; a row of blackish submarginal dots, which are slightly connected by a festoon. Fore wings acute, with two cinereous dentate bands near the base, and with a dark brown discal mark; costa and exterior border convex. Length of the body 8 lines; of the wings 30 lines.

a. Hong Kong. Presented by J. C. Bowring, Esq.

15. ABRAXAS LAPSARIATA.

Mas et fœm. Alba; corpus ochraceum, nigricante maculatum; alæ anticæ basi fasciisque sex latis macularibus connexis nigricantibus, fascia alba vix undulata; posticæ lineis duabus macularibus nigricantibus valde incompletis.

Male and female. White. Body ochraceous. Palpi blackish above. Thorax with blackish spots. Abdomen with blackish points and with two rows of blackish spots. Fore wings acute, blackish at the base, and with six bands of large blackish spots, which are

mostly confluent and occupy nearly the whole surface, with the exception of a white hardly undulating band; costa and exterior border hardly convex, the latter rather oblique. Hind wings with two very incomplete lines of blackish spots; exterior border with blackish spots and points. Length of the body 10 lines; of the wings 27—30 lines.

a—c. Hindostan. Presented by E. Doubleday, Esq.

16. ABRAXAS LANGUIDATA.

Fœm. Alba; caput et thorax anticus lutea, nigricante maculata; alæ anticæ fasciis quinque macularibus necnon guttis strigulisque plurimis submarginalibus cinereis; posticæ fasciis paucis, margine exteriore luteo strigis plurimis minutis transversis fuscis.

Female. White. Head and fore part of the thorax luteous, with blackish spots. Wings moderately long and broad. Fore wings acute, with five irregular bands of cinereous spots, the fifth or submarginal one accompanied by several cinereous dots and minute streaks; costa and exterior border straight. Hind wings with fewer bands; exterior border luteous, with numerous minute transverse brown streaks. Length of the body 8 lines; of the wings 20 lines.

a. Nepaul. Presented by Major-Gen. Hardwicke.

17. ABRAXAS METACHROMATA.

Fœm. Alba; corpus subtus luteum; caput luteum, frontis disco fusco; abdomen subtus nigro punctatum; alæ elongatæ, strigis apud marginem exteriorem transversis cinereis; anticæ fasciis quatuor cinereis macularibus, 3a ferrugineo interlineata; posticæ macula discali fasciæque interiore maculari subobsoleta cinereis, fascia submarginali ochracea nigricante notata antice marginali, margine exteriore antico excavato.

Female. White. Body luteous beneath. Head luteous; disk of the front brown. Abdomen with black points beneath. Wings elongate, with transverse cinereous streaks along the exterior border. Fore wings acute, with four irregular macular or incomplete cinereous bands; third band interlined with ferruginous; costa and exterior border straight. Hind wings with a round cinereous discal spot, and with indications of an interior cinereous macular band; an ochraceous submarginal band, which contains various blackish

marks, and extends to the exterior border in front; exterior border much excavated in front. Length of the body 8 lines; of the wings 26 lines.

It is very distinct from *A. compositata*, to which species it has most resemblance.

a. North Hindostan. From Capt. Boyes' collection.

18. ABRAXAS JUNCTILINEATA.

Mas et fœm. *Alba; corpus luteum, nigricante maculatum; alæ anticæ fasciis quinque trilineatis fuscis, 4a arcuata; posticæ macula discali antica fasciæque arcuata fasciisque duabus exterioribus macularibus fuscis, margine exteriori luteo.*

Male and female. White. Body mostly luteous. Front with a blackish point. Palpi blackish above. Thorax with four blackish spots in front and with two blackish stripes hindward. Abdomen with two rows of blackish quadrate spots. Fore wings acute, with five brown bands which converge hindward, and are each composed of three brown lines; fourth band curved; costa slightly convex; exterior border straight, rather oblique. Hind wings with a brown spot on the fore part of the disk, with a curved brown band, which is a continuation of the fourth band of the fore wings, and with two exterior macular bands; space along the hind part of the exterior border luteous. Length of the body 8—10 lines; of the wings 18—22 lines.

a—f. North China. From Mr. Fortune's collection.

19. ABRAXAS PLURILINEATA.

Fœm. *Flavescente-alba; corpus nigricante guttatum; palpi caput superantes; alæ breviusculæ, latiusculæ; anticæ vix acutæ, fasciis quatuor e lineis fuscis postice approximatis, costa subconvexa; posticæ subtruncatæ, postice pallide luteæ, lineis indeterminatis aut subobsoletis.*

Female. Yellowish white. Head with a blackish dot in front. Palpi extending somewhat beyond the head. Antennæ smooth, rather stout. Thorax with blackish dots. Abdomen with blackish dots along each side. Hind tibiæ not incrassated. Wings rather short and broad. Fore wings hardly acute, with fifteen transverse brown lines; these form four divisions which converge hindward; marginal line brown; costa and exterior border slightly convex. Hind wings somewhat truncated at the tips, pale luteous hindwards;

the lines extending from the fore wings incomplete, irregular or confused in front, nearly obsolete hindward. Length of the body 6 lines; of the wings 14 lines.

This species has a peculiar structure of the palpi, and with *A. junctilineata* forms a distinct group in the genus *Abraxas*, and much resembles the *Micronidæ*, to which family the *Zerenidæ* are nearly allied.

a. North China. From Mr. Fortune's collection.

20. ABRAXAS AMPLIFICATA.

Mas. *Alba*; caput antice fuscum; palpi lutei, nigricante guttati; antennæ pectinatæ, apice simplices; thoracis tegulæ fusco vittatæ; abdomen luteum, fusco bivittatum; alæ breviusculæ, latissimæ, fasciis duabus macularibus strigisque nonnullis fuscescentibus, lineolis transversis marginalibus nigris, plaga apud marginem interiorem lutea nigro punctata, margine exteriori ex parte luteo; anticæ basi fuscescentes luteo notatæ, fascia luteo interlineata fasciaque abbreviata strigisque costalibus transversis fuscescentibus.

Male. White. Head brown towards the face. Palpi luteous, with some blackish dots on the outer side. Antennæ moderately pectinated, except towards the tips. Thorax with a brown stripe on each side. Abdomen luteous, with two brown stripes. Wings rather short, very broad, with two brownish macular bands; some transverse brownish streaks between the bands; second band marginal, accompanied by short transverse black lines; a luteous black-pointed patch on the interior angle; exterior border partly luteous. Fore wings brownish and luteous-marked at the base, with a brownish luteous interlined band near the base, with a middle brownish band, which only appears near the costa, and with transverse brownish costal streaks; costa and exterior border almost straight. Hind wings with the interior angle rather prominent. Length of the body 10 lines; of the wings 26 lines.

This species has most affinity to *A. compositata*, but differs from that species in the greater shortness and breadth of the wings, and has much resemblance to some of the *Urapterydæ*.

a. North China. From Mr. Fortune's collection.

21. ABRAXAS DITRITARIA.

Fœm. Alba; corpus luteum, nigricante maculatum; alæ guttis punctisque confertissimis confluentibus pallide cinereis vix conspicuis, subtus obscuriores.

Female. White. Body luteous. Head blackish in front. Thorax with blackish spots. Abdomen with four rows of blackish dots. Wings moderately broad, with a multitude of pale cinereous hardly apparent confluent dots and points, so that the wings appear to be of a pale cinereous ground hue, varied with white; under side rather darker cinereous. Fore wings acute; costa slightly convex; exterior border hardly convex. Length of the body 6 lines; of the wings 18 lines.

a. South Hindostan. Presented by M. J. Walhouse, Esq.

22. ABRAXAS LITHOSIARIA.

Fœm. Nigricante-fusca; caput ochraceum, gutta nigro-fusca; antennæ sat robustæ; thoracis tegulæ ochraceæ; abdomen ochraceum, guttis dorsalibus nigris maculisque lateralibus quadratis nigro-fuscis; alæ elongatæ, sat angustæ, fasciis quatuor obliquis e maculis variis albis; anticæ apice rotundatæ, costa recta, margine exteriori convexo.

Female. Blackish brown. Head ochraceous, with a blackish brown dot on the vertex. Antennæ smooth, rather stout. Tegulæ of the thorax ochraceous. Abdomen ochraceous, with black dorsal dots and with large subquadrate blackish brown spots along each side. Wings elongate, rather narrow, with four oblique very irregular bands composed of many-shaped white spots. Fore wings somewhat rounded at the tips; costa straight; exterior border convex, moderately oblique. Length of the body 8 lines; of the wings 22 lines.

The ground colour of the wings is white, but the spots are so confluent that the dark hue is much more prevalent.

a. North China. From Mr. Fortune's collection.

Australasia.

23. ABRAXAS TRISERIARIA.

Alba; corpus luteum; abdomen e maculis nigris trivittatum; alæ basi nigricantes albo notatæ, macula discali fascia exteriori fasciæque marginali connexis nigricantibus.

Abraxas triseriaria, Herr.-Sch. *Exot. Schm.* f. 322. Guen. *Phal.* ii. 203, 1254.

Java.

24. ABRAXAS? EVERGISTA.

Fusca; corpus luteum; thorax nigro maculatus; abdomen nigro fasciatum; alæ anticæ fuscæ, basi luteæ, macula basali duabusque discalibus duabusque marginalibus albis; posticæ albæ, fascia marginali fusca postice excisa.

Phalæna-Geometra Evergista, Cram. *Pap. Exot.* iv. 155, pl. 369, f. E.

Orphanos Evergistaria, Hubn. *Verz. Schm.* 306, 2950.

Abraxas Evergistaria, Guen. *Phal.* ii. 203, 1256.

Amboina.

25. ARRAXAS ORBIFERATA.

Fœm. Alba; caput nigricans; palpi subascendentes; antennæ validæ, compressæ; pedes breviusculi, tibiis intermediis subfimbriatis; alæ breves, latæ, fascia exteriori valde abbreviata e lineis tribus fuscis, linea submarginali fusca valde incompleta; anticæ subacutæ, costa valde convexa fusco maculata, margine exteriori convexo; posticæ abdomen longe superantes, postice ochraceæ nigro notatæ.

Female. White. Head blackish. Palpi slightly ascending. Antennæ stout, compressed, smooth. Legs rather short; middle tibiæ slightly fringed; hind tibiæ not incrassated, with four rather long spurs. Wings short, broad, with an exterior brown band, which is much abbreviated in front and especially so in the hind wings, and is composed of three lines; a still more incomplete brown submarginal line. Fore wings slightly acute, with brown spots along the costa, which is very convex; exterior border convex; interior angle much rounded. Hind wings extending much beyond the abdomen, ochraceous and with some black marks about the interior angle. Length of the body 4 lines; of the wings 12 lines.

This species recedes much from the typical form of the genus, and has some resemblance to the *Micronidæ*.

Sarawak, Borneo. In Mr. Saunders' collection.

Country unknown.

26. ABRAXAS URGANDA.

Alba; corpus luteum; alæ linea exteriori duplicata guttulari cinerea postice lutea; anticæ basi luteæ, strigis duabus discalibus cinereis.

Phalæna-Geometra Urganda, Cram. Pap. Exot. iv. 162, pl. 372, f. B.

Abraxas Urgandata, Guen. Phal. ii. 207, 1265.

27. ABRAXAS CONAGGARIA.

Mas. *Alba*; corpus luteum; abdomen linea dorsali duabusque ventralibus macularibus nigris; alæ fasciis tribus undulatis maculisque marginalibus confluentibus nigricantibus, marginibus rotundatis; anticæ fasciis, 1a 2aque postice connexis; posticæ fascia 1a brevissima.

Abraxas conaggaria, Guen. Phal. ii. 202, 1253.

Hindostan?

28. ABRAXAS LABRARIA.

Fœm. *Alba*; corpus luteum; abdomen nigro maculatum; alæ margine lato nigro intus subsinuato; anticæ costa maculaque discali strigam usque ad marginem exterioriorem emittente nigris, maculis duabus apicalibus parvis trigonis nigris; posticæ macula discali rotunda.

Abraxas labraria, Guen. Phal. ii. 203, 1255.

Hindostan?

Genus 5. LIGDIA.

Corpus gracile. Frons squamosa; vertex productus. Proboscis breviuscula. Palpi breves, squamosi, hirsuti, vix ascendentes; articulus 3us minimus. Antennæ breves, maris pubescentes, fœm. setaceæ. Thorax brevis, aspere squamosus. Abdomen non maculatum. Pedes graciles; tibiæ posticæ incrassatæ, calcaribus breviusculis. Alæ breves, latæ, velutinæ; anticæ apice rotundatæ, margine exteriori convexo; posticæ margine exteriori subdentato.

Zerene, p., Treit.; Steph.

Mesoleuca, p., Hubn. Verz. Schm. 326.

Melanthia, p., Dup.; Boisd.

Boarmia, p., *Herr.-Sch.*

Ligdia, *Guen. Phal.* ii. 209.

Body slender. Front squamous; vertex prominent. Proboscis rather short. Palpi hardly ascending, squamous, hirsute, not rising above the front; third joint very minute. Antennæ short, pubescent in the male, setaceous in the female. Thorax short, roughly squamous. Abdomen of the female slender, keeled, of one colour; first joint forming a large entire patch. Legs slender; hind tibiæ much incrassated, with black dots; spurs rather short. Wings broad, short, velvety. Fore wings somewhat rounded at the tips; exterior border convex. Hind wings with the exterior border bent, slightly dentate.

1. LIGDIA ADUSTATA.

Albida; caput et thorax fusca; alæ anticæ basi fasciæque exteriore undulata nigro-fuscis argenteo sublineatis; posticæ lineis duabus pallide fuscescentibus.

———, *De Vill. Ent. Linn.* iv. 507.

Geometra adustata, *Wien. Verz.* 114, 9. *Ill. N. Ausg. dess.* i. 466, 9. *Bork. Eur. Schm.* v. 455, 224. *Schr. Faun. Boic.* ii. 2, 48, 1683. *Hubn. Geom.* pl. 15, f. 75, *Haw. Lep. Brit.* 337.

Phalæna adustata, *Fabr. Ent. Syst.* iii. 2, 187, 210.

Zerene adustata, *Treit. Schm.* vi. 2, 225, 5. *Steph. Ill. Brit. Haust.* iii. 250, 3.

Melanthia adustata, *Dup. Lep.* v. 257, pl. 188, f. 6. *Frey. Beitr.* ii. pl. 102, f. 2. *Boisd. Ind.* 217, 1802.

Mesoleuca adustata, *Hubn. Verz. Schm.* 326, 3150.

Boarmia adustaria, *Herr.-Sch. Eur. Schm.* iii. 83, 223.

Ligdia adustata, *Guen. Phal.* ii. 209, 1269.

a—i. England. From Mr. Stephens' collection.

j—o. England.

p, q. Europe. From M. Becker's collection.

2. LIGDIA COCTATA.

L. adustatæ affinis; tibiæ posticæ non valde incrassatæ; alæ anticæ magis elongatæ, apice productæ, margine exteriore recto, fascia minus marmorata; posticæ margine exteriore minus flexo, fasciæ dentibus minus inæqualibus.

Ligdia coctata, *Guen. Phal.* ii. 210, 1270.

North Hindostan.

Genus 6. LOMASPILIS.

Corpus sat breve, squamosum, sericeum, unicolor. Caput parvum; frons angusta, plana. Proboscis brevis. Palpi graciles, disjuncti, subarcuati; articuli indistincti. Antennæ breves, maris pubescentes, fœm. submoniliformes. Abdomen maris subconicum, fœm. subovatum. Pedes graciles; tibiæ posticæ subincrassatæ, calcaribus quatuor approximatis longiusculis. Alæ breves, integræ; anticæ apice rotundatæ.

Zerene, p., *Treit.*; *Herr.-Sch.*

Lomaspilis, *Hubn. Verz. Schm.* 306. *Guen. Phal.* ii. 210.

Melanippe, p., *Dup.*; *Boisd.*

Pœcilophasia, *Steph.*

Body rather short, squamous, silky, of one colour, slightly metallic. Head small; front narrow, flat. Proboscis short. Palpi slender, slightly curved, separate from each other; joints indistinct. Antennæ short, pubescent in the male, slightly moniliform in the female. Abdomen somewhat conical in the male, nearly ovate in the female. Legs slender; hind tibiæ slightly incrassated, with two pairs of approximate rather long spurs. Wings short, entire. Fore wings rounded at the tips; costa straight; exterior border slightly convex, rather oblique.

1. LOMASPILIS MARGINATA.

Fusca; alæ albæ, margine lato exciso fusco; posticæ nonnunquam fascia abbreviata fusca.

———, *Geoffr. Ins.* ii. 139, 60. *De Vill. Ent. Linn.* ii. 347, 533.

Phalæna-Geometra marginata, *Linn. Syst. Nat.* i. 2, 870, 257.

Clerck, Icon. pl. 2, f. 5. *Gmel. ed. Syst. Nat.* i. 5 2478, 257.

Phalæna marginata, *Fabr. Sp. Ins.* ii. 259, 101; *Mant. Ins.* ii. 202, 148; *Ent. Syst.* iii. 2, 180, 182. *Rossi, Faun. Etr.* ii. 194, 1168.

Phalæna staphyleata, *Scop. Ent. Carn.* 221, 548.

Geometra marginata, *Wien. Verz.* 114, 10. *Ill. N. Ausg. dess.* i. 466, 10. *Schr. Faun. Boic.* ii. 2, 50, 1685. *Mull. Faun. Frid.* 50, 441; *Zool. Dan.* 128, 1471. *Bork. Eur. Schm.* v. 457, 225. *Hubn. Geom.* pl. 15, f. 80. *Donov. Brit. Ins.* ix. pl. 293, f. 2. *Haw. Lep. Brit.* 337.

Geometra næviaria, Hubn. *Geom.* pl. 14, f. 79.

Geometra pollutaria, Hubn. *Geom.* pl. 15, f. 77.

Zerene marginata, Treit. *Schm.* vi. 2, 231, 8. Herr.-Sch. *Eur. Schm.* iii. 64, 104.

Lomaspilis marginaria, Hubn. *Verz. Schm.* 306, 2952. Guen. *Phal.* ii. 211, 1271.

Lomaspilis næviaria, Hubn. *Verz. Schm.* 306, 2951.

Lomaspilis pollutaria, Hubn. *Verz. Schm.* 306, 2953.

Melanippe marginata, Dup. *Lep.* v. 279, pl. 190, f. 1, 2. Boisd. *Ind.* 215, 1780.

Pœcilophasia marginata, Steph. *Ill. Brit. Haust.* iii. 314, 1.

a—aa. England. From Mr. Stephens' collection.

bb—hh. England.

ii, jj. Europe. From M. Becker's collection.

Genus 7. STALAGMIA.

Fœm. Corpus gracile. Proboscis brevis. Palpi graciles, porrecti, frontem superantes; articulus 3us acutus. Antennæ longæ, setacæ, gracillimæ. Abdomen non maculatum. Pedes longi, gracillimi; tibiæ posticæ non incrassatæ, calcaribus breviusculis. Alæ amplæ; anticæ acutæ, costa margineque exteriori convexis; posticæ margine exteriori subdentato.

Stalagmia, Guen. *Phal.* ii. 212.

Female. Body slender. Proboscis short. Palpi slender, extending beyond the front; third joint acute. Antennæ long, setaceous, very slender. Abdomen not spotted. Legs long, very slender; hind tibiæ not incrassated; spurs rather short. Wings ample. Fore wings acute, with the costa and the exterior border convex. Hind wings with the exterior border subdentate.

1. STALAGMIA GUTTARIA.

Alba; alæ punctis nonnullis, macula discali fasciisque duabus macularibus nigro-fuscis; anticæ linea interiore guttulari strigulisque transversis costalibus nigro-fuscis.

Phalæna guttaria, Boisd. *Guér. Icon. Regn. Anim.* pl. 90, f. 2.

Stalagmia guttaria, Guen. *Phal.* ii. 213, 1272.

Borneo.

a. Singapore. From Mr. Wallace's collection.

Genus 8. FULGURODES.

Corpus robustum. Frons plana. Palpi breves, graciles, valde disjuncti. Antennæ in utroque sexu pectinatæ, fœm. ramis brevioribus. Abdomen cylindricum non maculatum, fœm. crassum oviductu terebriformi. Tibiæ vix incrassatæ; tarsi spinosi. Alæ velutinæ, lineis valde determinatis, macula discali obscura dentata.

Fulgurodes, *Guen. Phal.* ii. 213.

Body robust. Front flat. Palpi short, slender, very remote from each other. Antennæ of the male broadly pectinated; branches regular; almost contiguous. Antennæ of the female pectinated; branches shorter. Abdomen cylindrical, without spots, very thick and with a terebriform oviduct in the female. Tibiæ hardly incrassated; tarsi spinose. Wings velvety, with very distinct lines; discal spot dark, dentate.

1. FULGURODES ACULEARIA.

Mas et fœm. *Alba; thoracis tegulæ nigro marginatæ; alæ lineis plurimis dentatis nigris, duabus exterioribus integris; anticæ maculis costalibus, macula magna discali, lineis duabus dentatis postice connexis, linea dentata postice abbreviata lineolisque tribus basalibus nigris; posticæ annulo discali strigulata.*

Fulgurodes aculearia, *Guen. Phal.* ii. 214, 1273.

Brazil.

2. FULGURODES SARTINARIA.

Mas. *Alba, F. aculeariæ minor; alæ magis fumosæ, lituris fuliginoso-fuscis, linea submarginali dentibus majoribus, annulo discali angustiore; posticæ lineis duabus marginalibus latioribus.*

Fulgurodes sartinaria, *Guen. Phal.* ii. 214, 1274.

Brazil.

3. FULGURODES INVERSARIA.

Mas. *F. sartinariæ simillima, magis fumosa; alæ litura discali furcata lineisque duabus exterioribus dentatis nigricantibus; anticæ lineis duabus interioribus nigricantibus.*

Fulgurodes inversaria, *Guen. Phal.* ii. 214, 1275, pl. 14, f. 5.

Rio Janeiro.

4. FULGURODES MONACHARIA.

Fœm. *Nigricans*, *alarum lituris* F. *inversariæ sat affinis*; *abdomen nigrum*, *maculis albis trivittatum*; *alæ anticæ macula discali majori*; *posticæ nigræ*, *striga discali maculisque submarginalibus albis*.

Fulgurodes monacharia, *Guen. Phal.* ii. 215, 1276.

Brazil.

Genus 9. PERIGRAMMA.

Fœm. *Corpus sat robustum*. *Frons plana*. *Palpi compressi*, *squamosi*, *hirsuti*, *frontem vix superantes*; *articulus 3us indistinctus*. *Antennæ pectinatæ*; *rami breves*, *arcuati*. *Abdomen non maculatum*. *Pedes validi*; *tibiæ posticæ incrassatæ*. *Alæ integræ*, *sericeæ*, *concolores*, *lituris non diversis*, *maculis nullis*.

Perigramma, *Guen. Phal.* ii. 215.

Female. *Body rather robust*. *Front flat*. *Palpi compressed*, *squamous-hirsute*, *hardly extending beyond the front*; *third joint indistinct*. *Antennæ with short curved branches*. *Abdomen without spots*. *Legs stout*; *hind tibiæ incrassated*. *Wings entire*, *silky*, *alike in colour and with like markings*, *not spotted*.

1. PERIGRAMMA NERVARIA.

Albida; *alæ anticæ striga exteriori discali*, *vitta tenui costali fasciæque lata marginali nigris*; *posticæ basi*, *vitta discali lineæque submarginali nigris*.

Perigramma nervaria, *Guen. Phal.* ii. 215, 1277, pl. 9, f. 1.

Brazil.

Genus 10. PERCNIA.

Corpus robustum, *cylindricum*, *maculatum*. *Proboscis valida*. *Palpi breves*, *crassi*, *ascendentes*; *articulus 3us minimus*. *Antennæ maris robustæ*, *setulosæ*, *pubescentes*. *Pedes validi*, *læves*; *tibiæ posticæ subincrassatæ*. *Alæ amplæ*, *elongatæ*, *lineis macularibus*; *anticæ acutæ*, *marginem exteriori subconvexo valde obliquo*.

Percnia, *Guen. Phal.* ii. 216.

Body stout, *cylindrical*, *spotted*. *Proboscis robust*. *Palpi thick*, *ascending*, *not rising higher than the front*; *third joint ex-*

tremely minute. Antennæ of the male stout, setulose, pubescent. Abdomen long, compressed, spotted. Legs robust, smooth; hind tibiæ somewhat incrassated; first pair of spurs short; second pair very short. Wings ample, elongated, with lines of spots. Fore wings acute; costa straight; exterior border slightly convex, very oblique.

1. PERCNIA FELINARIA.

Cinerea; caput nigrum, albo maculatum; thorax nigro maculatus, antice sordide ochraceus; abdomen e maculis nigris bivittatum; alæ macula discali fasciisque macularibus nigris, fascia exteriori subarcuata albida; anticæ nigro quinque lineatæ; posticæ quadrilineatæ.

Percnia felinaria, Guen. *Phal.* ii. 216, 1278, pl. 19, f. 1.

a—c. Nepaul. Presented by Major-General Hardwicke.

d, e. Silhet. From the Rev. J. Stainforth's collection.

f—h. ———?

2. PERCNIA BELLUARIA.

Mas. *P. felinariæ simillima, minor; palporum articulus 2us apice cinereus; alæ albido-cinereæ; anticæ punctis marginalibus minoribus magis rotundatis, margine exteriori magis convexo, lituris submarginalibus oblongis lanceolatis.*

Percnia belluaria, Guen. *Phal.* ii. 217, 1279.

Hindostan?

3. PERCNIA FORARIA.

Mas. *P. belluariæ simillima, minor; thorax nigro punctatus; abdominis dorsum flavescens-fuscum; alæ subfumoso-albæ; anticæ lineis sex macularibus maculaque discali majore rotundata nigris; posticæ lineis quatuor macularibus nigris.*

Percnia foraria, Guen. *Phal.* ii. 217, 1280.

Hindostan?

a. Hong Kong. Presented by J. C. Bowring, Esq.

Genus 11. BOMBYCODES.

Corpus gracile, velutinum, non maculatum. Proboscis valida. Palpi squamosi, brevissimi; articulus 3us indistinctus. Antennæ in utroque sexu pectinatæ; rami fœm. breviores. Pedes breves; calcaria parva; tarsi spinosi. Alæ amplæ, integræ, albæ, semi-hyalinæ, lituris nullis, fimbria brevi; anticæ subacutæ, costa marginæque exteriori subrectis.

Bombycodes, *Guen. Phal.* ii. 217.

Body slender, velvety, without spots. Proboscis robust. Palpi squamous, very short; third joint indistinct. Antennæ pectinated; branches pubescent, longer in the male than in the female. Legs short; spurs small; tarsi spinose. Wings ample, entire, white, semihyaline, without markings, finely squamous; fringe short. Fore wings slightly acute; costa and exterior border almost straight.

1. BOMBYCODES ASPILARIA.

Alba; caput maris fuscum, fœm. subflavescens; alæ subhyalinæ.

Bombycodes aspilaria, Guen. Phal. ii. 219.

a—c. Venezuela. From Mr. Dyson's collection.

2. BOMBYCODES SIMPLICARIA.

Mas. Alba; caput flavo pilosum; alæ velutinæ, puncto discali nigro, lituris atomariis nigricantibus vix conspicuis.

Bombycodes simplicaria, Zeller, Guen. Phal. ii. 219, 1282.

Colombia.

3. BOMBYCODES CYPRARIA.

Mas. Alba; thoracis tegulæ nigro unipunctatæ; pedes tibiis apice genubusque nigris; alæ macula discali nigra supra albo pilosa, linea duplicata marginali e punctis nigris; anticæ litura costali basali maculisque tribus nigris.

Bombycodes cypraria, Guen. Phal. ii. 219, 1283.

South America?

Genus 12. ORTHOSTIXIS.

Corpus gracile, subpilosum. Frons lata, convexa. Proboscis gracilis. Palpi porrecti, squamosi, brevissimi, gracillimi, frontem vix superantes; articuli indistincti. Abdomen non maculatum. Antennæ graciles, moniliformes, pubescentes. Pedes graciles; tibiæ posticæ calcaribus duobus apicalibus brevissimis. Alæ tenues, integræ, albæ, punctatæ; anticæ acutæ, costa recta, margine exteriori convexo subobliquo.

Zerene, p., *Treit.*; *Boisd.*; *Dup.*

Orthostixis, p., *Hubn. Verz. Schm.* 304; *Leder*; *Herr-Sch.*; *Guen. Phal.* ii. 219.

Body slender, slightly pilose. Front broad, somewhat convex. Proboscis slender. Palpi porrect, squamous, very short, very slender, hardly extending beyond the front; joints indistinct. Abdomen keeled, not spotted. Antennæ slender, moniliform and pubescent in both sexes. Legs slender, equal; hind tibiæ with only two spurs, which are apical and very short. Wings delicate, opaque, white, entire, with isolated points. Fore wings acute; costa straight; exterior border convex, slightly oblique.

1. ORTHOSTIXIS LÆTATA.

Alba; alæ puncto discali, linea exteriori punctulari punctisque marginalibus nigris; anticæ linea interiore punctulari.

Phalæna lætata, *Fabr. Ent. Syst. Sup.* 261.

Geometra cribraria, *Hubn. Geom.* pl. 16, f. 83.

Zerene cribrata, *Treit. Schm.* vi. 2, 244, 14. *Dup. Lep.* v. 246, pl. 187, f. 4. *Boisd. Ind.* 218, 1807.

Orthostixis cribraria, *Hubn. Verz. Schm.* 304, 2934. *Herr.-Sch. Eur. Schm.* iii. 92, 255. *Guen. Phal.* ii. 220, 1284.

Dalmatia. Hungary. Turkey.

2. ORTHOSTIXIS CALCULARIA.

O. lætatæ major; frons tegulæ nigro maculatæ; palpi antennæque nigricantia; alæ viridescence-albæ, magis opacæ; anticæ costa basi nigra, subtus nigricante tinctæ.

Orthostixis calcularia, *Leder, Verz. Europ. Span.* 96. *Guen. Phal.* ii. 221, 1285.

South Russia. Amasieh. Georgia in Asia.

Genus 13. ZERENE.

Corpus gracile. Vertex villosus. Proboscis conspicua. Palpi graciles, vix arcuati, frontem paullo superantes; articuli distincti. Antennæ maris pectinatæ; rami longi, graciles, subcontorti. Thorax brevissimus; tegulæ breves, hirsutæ. Abdomen longum, cylindricum, apice quadratum. Pedes graciles; tibiæ posticæ non incrassatæ, calcaribus sat longis. Alæ latæ, integræ, semihyalinæ, lineis punctularibus, fimbria brevi punctata.

Zerene, *Treit.*; *Guen. Phal.* ii. 231.

Orthostixis, p., *Hubn. Verz. Schm.* 304.

Body slender. Vertex pilose. Proboscis moderately long. Palpi slender, hardly curved, extending a little beyond the front; joints distinct. Antennæ of the male plumose; branches long, slender, slightly frizzled. Thorax very short; tegulæ short, hirsute. Abdomen long, cylindrical, quadrate at the tip. Legs slender; hind tibiæ not incrassated; spurs moderately long. Wings broad, entire, slightly hyaline, with lines of points, the connexion between which is traced by lunules; fringe short, with points.

1. ZERENE CATENARIA.

Alba; caput thoracisque humeri lutea; alæ lunula discali, linea exterior denticulata punctisque marginalibus nigris; antica linea interiore punctulari punctoque basali nigris.

Phalæna-Geometra catenaria, *Drury, Ins.* i. 17, pl. 8, f. 3; II. *Append. Cram. Pap. Exot.* iii. 61, pl. 228, f. 3. *Gmel. ed. Syst. Nat.* i. 5, 2461, 660.

Phalæna catenaria, *Fabr. Ent. Syst.* iii. 2, 140, 41.

Orthostixis catenaria, *Hubn. Samml. Exot. Schmett.* ii. *Lep. v. Geom.* ii. *Tenues*, i. *Spilotæ A. Ornatae*. i. f. 1—4; *Verz. Schm.* 304, 2935.

Bupalus catenarius, *Westw. ed. Drury*, i. 16, pl. 8, f. 3.

Zerene catenaria, *Guen. Phal.* ii. 222, 1286.

United States.

a—g. Nova Scotia. From Lieut. Redman's collection.

h. ———? From Mr. Milne's collection.

2. ZERENE? PETAVIA.

Mas. *Alba*; antennæ nigræ, pectinatae; alæ anticæ costa basi lutea; lineis duabus punctularibus strigae discali nigris luteo marginatis.

Phalæna-Bombyx Petavia, *Cram. Pap. Exot.* iv. 111, pl. 347, f. F.

Orthostixis Petaviaria, *Hubn. Verz. Schm.* 304, 2936.

Zerene Petaviaria, *Guen. Phal.* ii. 222, 1288.

Cape.

3. ZERENE DEVINCTARIA.

Mas. *Z. catenariæ simillima*; alæ subflavescente-cinerascentes, punctis e lunulis nigris connexis.

Zerene devinctaria, *Guen. Phal.* ii. 222, 1287, pl. 8, f. 3.

Australia.

Genus 14. NIPTERIA.

Corpus sat robustum. Caput sæpe flavo pilosum. Palpi graciles, frontem vix superantes. Pedes robusti; tibiæ posticæ vix incrassatæ; tarsi spinosi. Alæ latæ, integræ, concolores, non maculatæ, subtus substrigatæ. *Mas.*—Antennarum rami longi, graciles. *Fœm.*—Antennarum articuli bisetosi.

Nipteria, *Guen. Phal.* ii. 223.

Body moderately stout, of one colour. Head often with yellow hairs. Palpi slender, hardly extending beyond the front. Legs robust; tarsi spinose; hind tibiæ hardly incrassated. Wings broad, entire, alike in colour, without spots, slightly streaked beneath. *Male.*—Antennæ with long slender branches. *Female.*—Antennæ with two bristles on each joint.

1. NIPTERIA FLAMMATRARIA.

Mas. *Nigro-cinerea*; caput flavum; alæ subtus albido notatæ lituris magis determinatis; anticæ maculis tribus costalibus albis, 3a duplicata; posticæ macula discali lineaque subobsoleta obscurioribus.

Nipteria flammataria, *Guen. Phal.* ii. 223, 1289.

Brazil.

2. NIPTERIA DISCOLORARIA.

Mas. *Cinerea* ; *alæ linea exterior nigricante undulata extus albido marginata* ; *anticæ costa sulphureo-alba, umbris tribus. vagis trigonis nigricantibus* ; *posticæ macula discali nigricante.*

Fidonia discoloraria, Herr.-Sch. *Exot. Schm.* pl. 60, f. 334.

Nipteria discoloraria, Guen. *Phal.* ii. 223, 1290.

Brazil.

3. NIPTERIA FAVARIA.

Mas et fœm.—*Fusco-cinerea* ; *caput flavum* ; *alæ sericeæ* ; *anticæ subtus litura discali umbræque media arcuata nigricantibus* ; *posticæ subtus fusco strigatæ.* Fœm.—*Alæ anticæ umbra subtus submarginali.*

Nipteria favaria, Guen. *Phal.* ii. 224, 1291.

Brazil.

4. NIPTERIA INCOLORARIA.

Mas et fœm. *Pallide testaceo-cinerea* ; *alæ strigis supra vix determinatis subtus conspicuis, linea media transversa punctata lunulaque discali supra obsoletis.*

Nipteria incoloraria, Guen. *Phal.* ii. 1292, pl. 16, f. 3.

Brazil.

5. NIPTERIA BISTRIARIA.

Mas. *N. favariæ simillima, magis nigricante fuliginosa* ; *antennæ magis robustæ* ; *alæ linea subtus magis concisa, umbra subtus vaga submaculari nigro-fusca* ; *anticæ maculis subtus duabus nebulosis nigro-fuscis.*

Nipteria bistriaria, Guen. *Phal.* ii. 224, 1293.

Colombia ?

6. NIPTERIA CASSARIA.

Mas. *Fumoso-alba* ; *corpus fuliginoso-cinereum* ; *antennæ robustæ, basi pallidæ* ; *abdomen nigricante fasciatum* ; *alæ anticæ strigis costalibus et submarginalibus fuscis, lituris duabus costalibus nigricantibus, margine exterior fuliginoso-fusco, macula discali vaga* ; *posticæ strigatæ, macula magna discali plagisque lituraque fuliginosis.*

Nipteria cassaria, Guen. *Phal.* ii. 224, 1294.

Colombia.

Genus 15. OBEIDIA.

Mas. Corpus gracile. Proboscis brevis. Palpi subarcuati, oblique ascendentes, verticem non attingentes; articulus 3us minimus. Antennæ glabræ, subcompressæ. Abdomen longum. Pedes elongati; tibiæ posticæ incrassatæ, pilis longissimis vix fimbriatæ, calcaribus brevissimis. Alæ elongatæ; anticæ apice subrotundatæ, costa recta, margine exteriori perobliquo.

Male. Body slender. Proboscis short. Palpi obliquely ascending, slightly curved, not ascending so high as the vertex; third joint very minute. Antennæ smooth, slightly compressed. Abdomen long. Legs elongate; hind tibiæ incrassated, thinly fringed with very long hairs; spurs very short. Wings elongate. Fore wings somewhat rounded at the tips; costa straight; exterior border slightly convex, very oblique.

1. OBEIDIA VAGIPARDATA.

Mas. *Ochracea*; thorax nigro guttatus; abdomen fasciis latissimis punctisque nigris; alæ maculis guttisque nigricantibus marginatæ et bifasciatæ; anticæ guttis basalibus nigris; posticæ albidæ, ochraceo late marginatæ.

Male. Ochraceous, paler beneath. Antennæ black. Thorax with black dots. Abdomen with black points and with very broad black bands. Wings with round blackish spots and dots, which extend along the borders, and also form two very irregular oblique bands. Fore wings with black dots at the base. Hind wings whitish, except towards the exterior border. Length of the body 7 lines; of the wings 22 lines.

a. North China. From Mr. Fortune's collection.

Genus 16. ONELLABA.

Fæm. Corpus robustum. Proboscis conspicua. Palpi porrecti, brevissimi, frontem non superantes. Antennæ validæ, glabræ. Pedes læves, breviusculi, sat validi; tibiæ posticæ calcaribus parvis approximatis. Alæ sat angustæ, late fimbriatæ; anticæ apice rotundatæ, costa recta, margine exteriori perobliquo; posticæ margine interiori latissime fimbriato.

Female. Body robust. Proboscis distinct. Palpi porrect, very short, not extending beyond the front. Antennæ stout, smooth.

Abdomen not extending beyond the hind wings. Legs smooth, rather short and stout; hind tibiæ with four short approximate spurs. Wings rather narrow, broadly fringed. Fore wings rounded at the tips; costa straight; exterior border slightly convex, very oblique. Hind wings with the interior border very broadly fringed.

1. ONELLABA BOTYDATA.

Fœm. *Alba; corpus ochraceum; thoracis discus niger; abdomen fasciis latis nigris; alæ marginibus fasciisque quatuor obliquis macularibus nigricantibus, fascia 1a interrupta, 2a 3a 4aque integris, 3a 4aque subcontiguis.*

Female. White. Body ochraceous. Head above and antennæ black. Thorax with a black disk. Abdomen with broad black bands. Wings with blackish borders and with four blackish oblique bands; first band composed of a few separate spots; the other bands composed of connected spots, the third and fourth nearly contiguous; under side with narrower bands. Length of the body 4 lines; of the wings 12 lines.

a, b. South Hindostan. Presented by M. J. Walhouse, Esq.

Genus 17. NARTHECUSA.

Mas et fœm. Corpus gracile. Proboscis brevis, gracilis. Palpi porrecti, brevissimi, caput non superantes; articulus 3us parvus. Antennæ maris latissime pectinatæ. Pedes graciles, læves; tibiæ posticæ quadricalcaratæ, non incrassatæ. Alæ amplæ, tenues, dentatæ; anticæ acutæ, costa vix convexa.

Male and female. Body slender. Proboscis short, slender. Palpi porrect, very short, not extending beyond the head; third joint minute. Antennæ plumose or very broadly pectinated in the male, slender and smooth in the female. Legs slender, smooth; hind tibiæ not incrassated, with four moderately long spurs. Wings ample, delicate, dentate. Fore wings acute; costa very slightly convex; exterior border slightly notched. Hind wings extending much beyond the abdomen; exterior border more deeply notched.

1. NARTHECUSA TENUIORATA.

Mas et fœm. *Alba; caput nigro uniguttatum, antice ochraceum; thorax nigro guttatus; abdomen e guttis nigris bilineatum, postice ochraceum; alæ puncto discali; punctis exterioribus*

fasciæque informi marginali fuscis; anticæ costa fusco maculata et punctata basi ochracea, fascia marginali antice dilatata.

Male and female. White. Head ochraceous in front, with a black dot on the vertex. Thorax with several black dots. Abdomen ochraceous hindward, with black points and with two rows of black dots. Wings with a brown discal point, and with several brown points towards the irregular brown marginal band. Fore wings with brown spots and points along the costa, which is ochraceous at the base; marginal band much dilated in front. Hind wings with the marginal band more or less macular. Length of the body $5\frac{1}{2}$ —6 lines; of the wings 18—20 lines.

a—d. Ashanti. From the Wesleyan Missionary Society's collection.

Genus 17. NASSUNIA.

Mas. Corpus sat robustum. Proboscis brevissima. Palpi minimi. Antennæ latissime pectinatæ. Abomen alas posticas non superans. Pedes læves, breviusculi; tibiæ posticæ quadricalcaratæ. Alæ elongatæ; anticæ apice rotundatæ, costa recta, margine exteriore vix convexo valde obliquo.

Male. Body rather stout. Proboscis very short. Palpi extremely short. Antennæ very broadly pectinated. Abdomen not extending beyond the hind wings. Legs smooth, rather short; hind tibiæ with four spurs, the first pair much longer than the apical pair. Wings elongate. Fore wings rounded at the tips; costa straight; exterior border hardly convex, very oblique.

1. NASSUNIA BUPALIATA.

Mas. *Cinereo-alba; caput ochraceo bifasciatum; thoracis humeri ochracei; abdomen e punctis nigris bivittatum; alæ puncto discali lineaque exteriore undulata nigro punctata plus minusve interrupta ochraceis; anticæ linea interiore e guttis ochraceis nigro punctatis, costa ochraceo biguttata.*

Male. Cinereous-white. Head with two ochraceous bands. Antennæ white, with black branches. Thorax ochraceous on each side in front. Abdomen with two rows of black points. Wings with an ochraceous discal point, and with an undulating exterior ochraceous line, which is marked by black points on the veins, and is more or less interrupted between the veins. Fore wings with an

interior line of ochraceous black-marked dots ; costa with two ochraceous dots, the second between the interior line and the first, which is basal and contains a black point. Length of the body 6 lines ; of the wings 18 lines.

a, b. South Africa. Presented by Sir A. Smith.

c. Port Natal. From M. Gueinzus' collection.

Genus 18. NELCYNDA.

Mas. Corpus robustum. Proboscis valida. Palpi ad frontem applicati, caput non superantes ; articulus 3us vix conspicuus. Antennæ robustæ, glabræ, compressæ. Pectus sublanuginosum. Pedes validi, breviusculi. Alæ spissæ, amplæ, elongatæ ; anticæ subacutæ, costa vix convexa, margine exteriori perobliquo ; posticæ abdomen superantes.

Male. Body stout. Proboscis robust, moderately long. Palpi vertical, applied to the head, not rising above the front ; third joint extremely minute, indistinct. Antennæ stout, smooth, compressed. Pectus somewhat woolly. Legs stout, rather short. Wings stout, ample, elongate. Fore wings slightly acute ; costa and exterior border very slightly convex, the latter very oblique. Hind wings extending somewhat beyond the abdomen.

It is very doubtful whether this genus is sufficiently allied to the *Zerenidæ* to be associated with them.

1. NELCYNDA RECTIFICATA.

Mas. *Pallidissime cervina ; caput obscurius ; pedes fuscii ; alæ maculis submarginalibus nigricantibus ; alæ guttis submarginalibus nigricantibus ; anticæ gutta discali lineisque quatuor subdenticulatis albis ; posticæ albidæ, fasciis abbreviatis cervinis.*

Male. Very pale fawn-colour. Head somewhat darker. Antennæ dull ochraceous. Legs brown. Wings with submarginal blackish spots ; these are paler and smaller on the under side, where the four wings are nearly alike in colour and in markings. Fore wings with a white discal spot, and with four oblique slightly undulating and denticulated white lines ; space about the lines rather darker than the wings elsewhere. Hind wings whitish, with incomplete fawn-coloured bands, which correspond to the spaces between the lines of the fore wings. Length of the body 10 lines ; of the wings 32 lines.

a. ——— ? From Mr. Stevens' collection.

The following genera may also belong to this family.

Genus NEPHODIA.

Nephodia, Hubn. Zutr.; Verz. Schm. 312.

1. NEPHODIA ACRINARIA.

Albida; antennæ maris pectinatæ, apice simplices; thorax et abdomen apice lutea; alæ anticæ basi luteæ, litura discali nigricante, fascia exterior arcuata postice abbreviata fasciaque marginali cinereis; posticæ extus cinerascens.

Nephodia acrinaria, Hubn. Zutr. 16, 226, f. 451, 452.

Isle St. Thomas.

2. NEPHODIA VAPORARIA.

Albido-cinerea; antennæ maris pectinatæ; alæ venis lineaque submarginali nigricantibus; anticæ lunula discali nigricante.

Nephodia vaporaria, Hubn. Zutr. 22, 238, f. 475, 476.

Georgia.

3. NEPHODIA NUBILARIA.

Cinerea; antennæ maris pectinatæ, apice simplices; alæ puncto discali nigro, fasciis duabus exterioribus nigricantibus vix dentatis; anticæ linea interiore nigricante.

Nephodia nubilaria, Hubn. Zutr. 32, 198, f. 395, 396; Verz. Schm. 312, 3017.

Rio Janeiro.

Genus CALOSPILA.

Calospila, Herr.-Sch. Exot. Schm.

1. CALOSPILA POSTHUMARIA.

Mas. Nigro-cinerea; caput et abdomen apice lutea; alæ fasciis duabus e lituris albis.

Calospila posthumaria, Herr.-Sch. Exot. Schm. pl. 78, f. 447.

Brazil.

Fam 17. LIGIDÆ.

Corpus sæpe robustum. Frons producta, pilis appressis. Antennæ robustæ, maris sæpissime pectinatæ. Thorax brevissimus, dense villosus, sæpe cristatus. Abdomen longum, sericeum, fœm. ovatum. Pedes sat robusti; tibiæ quadricalcaratæ; tarsi spinosi. Alæ integræ, spissæ, læves, non aut vix conspersæ; anticæ oblongæ, sæpissime acutæ, lineis transversis nullis; posticæ breves, bene determinatæ, lituris nullis, margine exteriori sæpe flexo.

Ligidæ, *Guen. Phal.* ii. 228.

Body generally stout. Front prominent, with compact hairs. Palpi variable. Antennæ stout, generally pectinated in the male. Thorax very short, thickly clothed, often crested. Abdomen long, silky, ovate in the female. Legs rather stout; hind tibiæ with four spurs; tarsi spinose. Wings entire, stout, smooth, not or hardly speckled. Fore wings oblong, generally acute, without the usual transverse lines. Hind wings short, well developed, without markings; exterior border often bent.

- | | | |
|--|-----------|-------------------------------|
| A. Proboscis subobsoleta. | - - - - - | 4. LIGIA, <i>Dup.</i> |
| B. Proboscis brevissima. | - - - - - | 3. DORYODES, <i>Guen.</i> |
| C. Proboscis non brevissima. | | |
| A. Abdomen alas posticas non superans. | | |
| A. Corpus gracile. | | |
| a. Proboscis brevis. | | |
| i. Antennæ breves. | - - - - - | 1. AXIA, <i>Hubn.</i> |
| ii. Antennæ longæ. | - - - - - | 7. CHEMERINA, <i>Boisd.</i> |
| b. Proboscis longa. | - - - - - | 2. DICHROMA, <i>Westw.</i> |
| B. Corpus robustum. | - - - - - | 5. CHLENIAS, <i>Guen.</i> |
| B. Abdomen alas posticas superans. | - - - - - | 6. PACHYCNEMIA, <i>Steph.</i> |

Genus 1. AXIA.

Corpus gracile. Frons hirsuta. Proboscis brevis, distincta. Palpi squamosi, frontem vix attingentes. Antennæ breves. Thorax hirsutus, brevis, globosus. Pedes læves; tibiæ posticæ incrassatæ, quadricalcaratæ. Alæ læves, sericæ, nitentes; anticæ trigonæ, acutæ, maculis metallicis; posticæ rotundatæ, unicolores. *Mas.*—Antennæ pectinatæ, apice dentatæ.

Axia, Hubn. *Verz. Schm.* 249.

Timia, Boisd. *Ind.* ed. 1, 101. *Dup.*; *Herr.-Sch.*; *Guen. Phal.* ii. 229.

Cimelia, Leder.

Body slender. Front hirsute. Proboscis short, distinct. Palpi squamous, hardly extending to the front. Antennæ short. Thorax hirsute, short, globose. Legs smooth; hind tibiæ incrassated, with four long spurs. Wings smooth, silky, shining. Fore wings triangular, acute, with metallic spots; costa straight. Hind wings rounded, of one colour. *Male*.—Antennæ pectinated, dentate and acute at the tips; branches regular, very pubescent.

This genus is noticed erroneously in the third series of this list, p. 839. There is also a mistake in the locality of one of the specimens, in consequence of a wrong ticket having been affixed to it.

1. AXIA MARGARITA.

Rosea; *alæ anticæ basæ luteæ, vittis duabus basalibus, litura discali lineaque exteriore obliqua abbreviata argenteis, plaga discali viridescente, fascia marginali antice attenuata pallide flava, fimbria pallide rosea*; *posticæ flavescence-albidæ*.

Noctua margarita, Hubn. *Noct.* f. 514.

Axia margarita, Hubn. *Verz. Schm.* 249, 2469.

Timia margarita Boisd. *Ind.* 173, 1382. *Dup. Lep. Sup.* iii. 494, pl. 42, f. 4. *Herr.-Sch. Eur. Schm.* iii. 37, 103. *Guen. Phal.* ii. 230, 1298.

a—c. Europe. From M. Becker's collection.

Genus 2. DICHROMA.

Corpus gracile. Frons squamosa, subproducta. Proboscis longa. Palpi squamosi, porrecti, sat robusti, apice contigui; articuli indistincti. Antennæ maris subpectinatæ. Abdomen conicum. Pedes longi; calcaria sat longa; tarsi spinosi. Alæ integræ; anticæ oblongæ, acutæ, maculis argenteis, costa recta margine exteriore subconvexo; posticæ bene determinatæ, lituris nullis.

Dichroma, Westw. *Duncan's Exotic Moths, Nat. Libr.* xxxvii. 224.

Argyrophora, Guen. *Phal.* ii. 230.

Body slender. Front squamous, slightly advanced between the palpi. Proboscis long. Palpi squamous, porrect, rather stout,

contiguous at the tips; joints indistinct. Antennæ of the male slightly pectinated. Abdomen conical. Legs long; spurs moderately long; tarsi spinose. Wings entire. Fore wings oblong, acute, with silvery spots; costa straight; exterior border slightly convex, moderately oblique. Hind wings well developed, without markings.

1. DICHROMA MONETATA.

Margaritaceo-alba; alæ anticæ fasciis macularibus cinnamomeis nigro marginatis, maculis marginalibus trigonis, fimbria nigricante notata.

Argyrophora monetata, Guen. *Phal.* ii. 231, 1299.

Cape.

2. DICHROMA TROFONIA.

Cervina; abdomen albidum; alæ anticæ lituris plurimis argenteis lanceolatis nigro marginatis; posticæ albidæ.

Phalæna-Geometra Trofonia, Cram. *Pap. Exot.* iii. 92, pl. 247, f. F.

Argyrophora Trofoniata, Guen. *Phal.* ii. 231, 1300.

a—d. South Africa. Presented by R. Trimen, Esq.

e. Madagascar. From Dr. Lyall's collection.

3. DICHROMA ZAIDA.

Rosea; alæ anticæ lituris variis longitudinalibus albis nigrisque; posticæ cinereæ, fascia exterior nigricante postice abbreviata, fascia submarginali rosea.

Phalæna Zaida, Stoll. *Cram. Pap. Exot.* v. 111, pl. 36, f. 6.

Argyrophora Zaidaria, Guen. *Phal.* ii. 232, 1301.

Cape.

4. DICHROMA HISTRIONALIS.

Dichroma histrionalis, Westw. *Duncan's Exotic Moths*, *Nat. Libr.* xxxvii. 227, pl. 30, f. 2.

Argyrophora histrionaria, Guen. *Phal.* ii. 232, 1302.

There is no apparent difference between this species and *D. Trofonia*.

Cape.

5. DICHROMA ARQUALIS.

Fuscescens; abdomen album; alæ anticæ litura basali trifurcata, lineis duabus strigularibus strigisque marginalibus intus arcuatis et connexis albis; posticæ albæ, vix fuscescente tinctæ.

Dichroma arcualis, Westw. *Duncan's Exotic Moths*, Nat. Libr. xxxvii. 228, pl. 30, f. 3.

Argyrophora arcuaria, Guen. *Phal.* ii. 232, 1303.

Cape.

6. DICHROMA EQUESTRALIS.

Læte viridis; abdomen album; pedes rosei; alæ anticæ lineis interioribus et exterioribus ramosis argenteis; posticæ albæ.

Dichroma equestralis, Westw. *Duncan's Exotic Moths*, Nat. Libr. xxxvii. 224, pl. 30, f. 1.

Argyrophora equestrinaria, Guen. *Phal.* ii. 232, 1304.

a. South Africa. From Mr. Pamplin's collection.

7. DICHROMA? MODERATA.

Mas. *Læte viridis, gracilis; palpi subascendentes, caput paullo superantes; antennæ sat late pectinatæ, apice simplices; alæ anticæ lineis quinque obliquis dentatis undulatis argenteis; posticæ albæ.*

Male. Bright green, slender. Palpi slightly ascending, extending a little beyond the head. Antennæ rather broadly pectinated, except towards the tips. Fore wings with five oblique dentate and undulating silvery lines, which are nearly parallel to each other; first line basal; third abbreviated hindward. Hind wings white. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

a. South Africa. Presented by R. Trimen, Esq.

b. Port Natal. From M. Becker's collection.

Genus 3. DORYODES.

Mas. Corpus longum, gracile. Proboscis brevissima. Palpi porrecti, rostriformes, acuti, caput longe superantes; articulus 3us longus, tenuis. Antennæ pectinatæ. Abdomen cylindricum, alas posticas longe superans, apice obtusum. Pedes longi, subspinosi;

calcaria quatuor gracilia, remota. Alæ integræ, læves, sericeæ; anticæ lanceolatae, peracutæ; posticæ breves, rotundatæ, lituris nullis.

Doryodes, *Guen. Phal.* ii. 233.

Male. Body long, slender. Proboscis very short. Palpi porrect, rostriform, acute, extending rather far beyond the head; third joint long, aciculate. Antennæ pectinated. Abdomen cylindrical, extending much beyond the hind wings, obtuse at the tip. Legs long, with minute spines; spurs slender; the pairs far apart from each other. Wings entire, smooth, silky. Fore wings lanceolate, very acute. Hind wings short, rounded, without markings.

1. DORYODES ACUTARIA.

Mas. *Pallide ochracea; alæ anticæ costa margineque exteriori violaceo-cinereis, lineis duabus discalibus albis nigricante marginatis, 1a abbreviata, 2a posteriore subarcuata, punctis duobus discalibus albis; posticæ ochraceo-albæ.*

Ligia acutaria, Herr.-Sch. Eur. Schm. iii. 74, f. 447.

Doryodes acutaria, Guen. Phal. ii. 233, 1305, pl. 17, f. 6.

Georgia.

2. DORYODES SPADARIA.

Mas. *D. acutariæ simillima, major; abdomen longius; alæ anticæ obscuriores, acutiores, magis oblongæ et cinereæ, lituris tenuioribus minus distinctis; posticæ magis oblongæ, costa ex parte anguloque interiore nigricante-cinereis.*

Doryodes spadaria, Guen. Phal. ii. 234, 1306.

Florida.

Genus 4. LIGIA.

Corpus robustum. Caput subcristatum. Proboscis subobsoleta. Palpi porrecti, caput sat superantes; articulus 3us conicus, 2i dimidio brevior. Antennæ maris late pectinatæ. Abdomen alas posticas non superans. Pedes læves; tibiæ posticæ quadricalcaratæ. Alæ amplæ; anticæ plus minusve acutæ, costa recta, margine exteriori subconvexo.

Fidonia, p., *Treit.*

Ligia, *Dup. Lep.* iv. 107; *Boisd.*; *Steph.*; *Herr.-Sch.*; *Guen. Phal.* ii. 234.

Body stout. Proboscis nearly obsolete. Palpi porrect, very pilose, extending rather beyond the head; third joint conical, less than half the length of the second. Antennæ of the male broadly pectinated. Abdomen not extending beyond the hind wings. Legs smooth; hind tibiæ with four moderately long spurs. Wings ample. Fore wings more or less acute at the tips; costa straight; exterior border slightly convex, moderately oblique.

1. LIGIA JOURDANARIA.

Cervina; antennæ albæ; alæ anticæ nigricante conspersæ, venis, vittis duabus subcostalibus incompletis lineaque lunulata valde obliqua albis, fimbria albo notata; posticæ albæ, margine exteriori subcervino.

Geometra Jourdanaria, *Ann. Soc. Linn. Par.* v. 480, pl. 11.

Fidonia Jourdanaria, *Treit. Schm.* vi. 2, 303.

Ligia Jourdanaria, *Dup. Lep.* iv. 464, pl. 169, f. 6. *Frey. Beitr.* pl. 210, f. 4, 5. *Boisd. Ind.* 189, 1497. *Herr.-Sch. Eur. Schm.* iii. 97, 265. *Guen. Phal.* ii. 235, 1308.

a—d. Europe. From M. Becker's collection.

2. LIGIA ARGENTARIA.

Roseo-alba; alæ anticæ umbra submarginali fusca flexa, litura discali nigra, costa margineque exteriori subflavescentibus; posticæ apice nigricante tinctæ.

Ligia argentaria, *Herr.-Sch. Eur. Schm.* iii. 98, 267, pl. 65, f. 403. *Guen. Phal.* ii. 235, 1308.

Sicily.

3. LIGIA OPACARIA.

Rufescens aut cinerea; alæ anticæ linea obliqua abbreviata alba intus fusco marginata; posticæ albido-cinereæ.

Geometra opacaria, *Hubn. Geom.* pl. 96, f. 493—496.

Aspilates opacaria, *Treit. Schm. Sup.* 2, 180.

Ligia opacaria, *Dup. Lep.* iv. 467, pl. 169, f. 5. *Frey. Beitr.* pl. 180, f. 2. *Boisd. Ind.* 189, 1498. *Herr.-Sch. Eur. Schm.* iii. 97, 266. *Guen. Phal.* ii. 236, 1309.

a, b. Europe. From M. Becker's collection.

4. *LIGIA?* *CILIARIA*.

Alæ anticæ flavescente-subcinereo-pruinosaë, venis striga media obliqua dentata serieque punctorum externa fuscis; posticæ albido sericeæ, linea posteriore interrupta obsolete fusca.

Ligia ciliaria, *Ménétriés*, *Mém. Acad. Imp. Sci. St. Petersb.* 6me *Sér. Sci. Nat.* vi. 296, 899, pl. 6, f. 11.

Bokhara.

5. *LIGIA?* *SIMILIARIA*.

Alæ anticæ flavescente-subcinereo adpersæ, venis obsolete fuscis, linea marginali fusca; posticæ albæ, atomis infuscatis conspersis, disco stigmatè lineaque marginali fuscis, albo-ciliatis.

Ligia similaria, *Ménétriés*, *Mém. Acad. Imp. Sci. St. Petersb.* 6me *Sér. Sci. Nat.* vi. 296, 900, pl. 6, f. 12.

Bokhara.

Genus 5. *CHLENIAS*.

Corpus robustum. Caput cristatum. Proboscis mediocris. Palpi porrecti, caput paullo superantes; articulus 3us conicus, 2i dimidio brevior. Antennæ maris sat late pectinatæ. Thorax cristatus. Abdomen alas posticas non superans. Pedes validi, longiusculi; calcaria sat longa. Alæ elongatæ; anticæ apice rotundatæ, costa subrecta, margine exteriori convexo perobliquo.

Chlenias, *Guen. Phal.* ii. 236.

Body stout. Head crested. Proboscis moderately long. Palpi porrect, extending a little beyond the head; third joint conical, less than half the length of the second. Antennæ of the male rather broadly pectinated. Thorax crested. Abdomen not extending beyond the hind wings. Legs stout, rather long; hind tibiæ with four moderately long spurs, Wings elongate. Fore wings rounded at the tips; costa almost straight; exterior border convex, very oblique.

A. *Alæ anticæ dentatæ.*

A. *Alæ subtus roseo tinctæ.* - - - *porphyrinaria*, *Guen.*

B. *Alæ non roseo tinctæ.*

A. *Alæ posticæ testaceæ.* - - - *Beggaria*, *Guen.*

B. *Alæ posticæ non testaceæ.*

a. *Alæ posticæ non basi albidæ.*

- i. Alæ anticæ vitta nigra. - - Galearia, *Guen.*
- ii. Alæ anticæ nigro non vittatæ. - - indecisata, *Walk.*
- b. Alæ posticæ basi albidæ. - - caburraria, *Guen.*
- B. Alæ anticæ vix dentatæ.
- A. Minor; alæ angustiores. - - Banksiaria, *Le Guill.*
- B. Major; alæ latiores. - - auctaria, *Guen.*
- C. Alæ integræ.
- A. Caput cornu bifido. - - arietaria, *Guen.*
- B. Caput non cornutum.
- A. Alæ anticæ albo non lineatæ. - - umbraticaria, *Guen.*
- B. Alæ anticæ albo lineatæ. - - vittuligera, *Walk.*

1. CHLENIAS PORPHYRINARIA.

Mas. *Cinerascens*; antennæ rufescentes; alæ subtus roseo-cinereæ, macula discali vaga; anticæ costa, fimbria venisque testaceo-rufescentibus, puncto discali vago; posticæ ferrugineo-cinereæ, margine exteriori sinuato, fascia marginali subtus nigro-fusca.

Chlenias porphyrinaria, *Guen. Phal.* ii, 237, 1310.

Tasmania.

2. CHLENIAS BEGGARIA.

Cinereo-fusca; alæ anticæ dentatæ, peracutæ, umbris parvis transversis indeterminatis saturatioribus, litura discali vix conspicua, venis rufescente tinctis; posticæ pallide testaceæ, margine exteriori obscuriore undato dentato, subtus albidæ cinereo marginatæ.

Chlenias Beggaria, *Guen. Phal.* ii. 238, 1311, pl. 14, f. 2.

Australia.

3. CHLENIAS GALEARIA.

Cinerea; thorax antice nigricans; alæ anticæ vitta discali plagisque duabus exterioribus indeterminatis nigrificantibus, lineis duabus transversis e punctis elongatis venisque exterioribus nigris.

Chlenias Galearia, *Guen. Phal.* ii. 238, 1312.

a, b. Australia. Presented by E. Doubleday, Esq.

c. Sydney. From Mr. Lambert's collection.

4. CHLENIAS CABURRARIA.

Mas et fœm. *Rufescente-fusca; thorax antice cervinus, nigro marginatus; alæ valde dentatæ; anticæ nigro nebulosæ, lineis duabus transversis nigris angulatis; posticæ basi albidæ, marginibus fusco suffusis.*

Chlenias caburraria, Guen. *Phal.* ii. 238, 1313.

Australia.

5. CHLENIAS BANKSIARIA.

Mas et fœm. *Cinerascens; alæ anticæ latæ, nebulosis transversis nigro-fuscis ferrugineo variis, venis fusco nigro alboque variis, strigis inter venas; posticæ pallidiores, subtus basi albidæ.*

—— *Banksiaria*, Le Guillou, *Rev. Zool.* 1841, 257.

Chlenias Banksiaria, Guen. *Phal.* ii. 239, 1314.

Australia.

6. CHLENIAS AUCTARIA.

Mas et fœm. *C. Banksiariæ simillima, major; alæ latiores, obscuriores; anticæ fasciis nebulosis nigris, umbra longitudinali maculaque exteriori tridentata nigris; posticæ margine exteriori magis sinuato.*

Chlenias auctaria, Guen. *Phal.* ii. 239, 1315, pl. 14, f. 1.

Tasmania.

7. CHLENIAS ARIETARIA.

Subcervina; thorax nigro fasciatus; alæ anticæ venis albis ex parte nigro marginatis, lineola basali nigra; posticæ albidæ, margine exteriori subcervino.

Chlenias arietaria, Guen. *Phal.* ii. 240, 1317.

a. Australia. From Mr. Damel's collection.

b. Tasmania. Presented by R. Butler, Esq.

8. CHLENIAS UMBRATICARIA.

Fœm. *Pallide cinerascens; frons fasciculata; antennæ dentatæ; abdomen subrufescens; alæ anticæ integræ, angustæ, valde elongatæ, ochraceo subinctæ, lineis intervenas saturatioribus indistinctis; posticæ cinereo-albæ, latæ, sinuatæ.*

Chlenias umbraticaria, Guen. *Phal.* ii. 240, 1317.

Tasmania.

9. CHLENIAS INDECISATA.

Mas et fœm. *Cinerea*, *C. Galeariæ* valde affinis; caput et thorax nigro strigata; alæ anticæ lineis nonnullis transversis e strigis aut punctis elongatis nigris, lituris costalibus obliquis lunulisque marginalibus nigris, fasciis duabus ferrugineis incompletis nonnunquam obsoletis; posticæ extus fuscescente-cinereæ.

Male and female. Cinereous, nearly allied to *C. Galearia*. Head and thorax with black streaks. Fore wings with several irregular transverse black lines composed of streaks or of elongated points on the veins; costa with oblique black marks; marginal lunules black; two incomplete and sometimes obsolete ferruginous bands, one near the base, the other near the exterior border. Hind wings brownish cinereous exteriorly. Length of the body 7—8 lines; of the wings 16—18 lines.

a. Australia. Presented by E. Doubleday, Esq.

b, c. Tasmania. From Mr. A. J. Smith's collection.

d. Tasmania. Presented by R. Butler, Esq.

e. Sydney. From Mr. Lambert's collection.

10. CHLENIAS VITTULIGERA.

Fœm. *Pallidissime cervina*; alæ punctis marginalibus nigris; anticæ peracutæ, venis nigris, lineis inter venas albis; posticæ pallide cinereæ, basi albidæ, venis albis.

Female. Very pale fawn-colour. Abdomen pale cinereous. Wings with black marginal points. Fore wings very acute, with white lines between the veins, which are black. Hind wings pale cinereous, whitish towards the base, with white lines, which are more faint than those of the fore wings. Length of the body $6\frac{1}{2}$ lines; of the wings 16 lines.

a, b. Australia. From Mr. Milne's collection.

c. Moreton Bay. Presented by — Gibbons, Esq.

Genus 6. PACHYCNEMIA.

Corpus gracile. Frons valde convexa. Proboscis bene determinata. Palpi decumbentes, squamosi, frontem superantes; articulus 3us minimus. Antennæ pubescentes, maris robustæ et crenulatæ. Thorax brevis, subpilosus, non cristatus. Abdomen læve, compressum, alas posticas superans. Pedes læves; tibiæ posticæ maris

valde incrassatæ, calcaribus parvis. Alæ sericeæ, fimbria longa; anticæ oblongæ; posticæ rotundatæ.

Chesias, p., *Treit.*

Alsophila, *Hubn. Verz. Schm.* 322.

Pachynemia, *Steph. Cat. Lep. Brit.* 141; *Guen. Phal.* ii. 240.

Sthanelia, *Boisd.; Dup.; Herr.-Sch.*

Body slender. Front arched. Proboscis well developed. Palpi decumbent, squamous, extending beyond the front; third joint extremely short. Antennæ pubescent in both sexes, stout and crenulate in the male. Thorax short, slightly pilose, without crests. Abdomen extending beyond the hind wings, smooth and compressed in both sexes. Legs smooth; hind tibiæ of the male much incrassated, with short spurs. Wings silky, with long fringes. Fore wings oblong. Hind wings rounded.

1. PACHYCNEMIA HIPPOCASTANARIA.

Obscure cinerea; alæ anticæ lineis duabus obscurioribus pallido marginatis, 1a angulata, 2a denticulata, gutta discali punctisque marginalibus nigris; posticæ pallidiores, puncto discali lineaque exteriori fuscescentibus indistinctis.

Geometra hippocastanaria, *Hubn. Geom.* pl. 36, f. 136.

Geometra degeneraria, *Hubn. Geom.* f. 405.

Chesias hippocastanaria, *Treit. Schm.* vi. 1. 341, 7. *Dup. Lep.* v. 517, pl. 206, f. 8.

Alsophila hippocastanaria, *Hubn. Verz. Schm.* 321, 3094.

Alsophila difformaria, *Hubn. Verz. Schm.* 321, 3095.

Sthanelia hippocastanaria, *Boisd. Ind.* 229, 1932. *Herr.-Sch. Eur. Schm.* iii. 96, 264, pl. 54, f. 330.

Pachynemia hippocastanaria, *Steph. Ill. Brit. Haust.* iii. 269. *Curt. Brit. Ent.* pl. 611. *Guen. Phal.* ii. 242, 1318.

a—f. England. From Mr. Stephens' collection.

g, h. England. From Mr. Stevens' collection.

i. England.

Genus 7. CHEMERINA.

Corpus sat gracile. Proboscis brevis. Palpi breves, lati, oblique ascendentes, verticem non superantes; articulus 3us minimus. Antennæ maris subpectinatæ. Abdomen alas posticas non superans. Pedes graciles; tibiæ posticæ quadricaratae. Alæ amplæ; anticæ acutæ, costa recta, margine exteriori convexo sat obliquo.

Chemerina, *Boisd. Ind.* 193; *Dup.*; *Herr.-Sch.*; *Leder.*; *Guen. Phal.* ii. 242.

Body rather slender. Proboscis short. Palpi short, broad, obliquely ascending, not rising so high as the vertex; third joint very minute. Antennæ of the male slightly pectinated. Abdomen not extending beyond the hind wings. Legs slender; hind tibiæ with four moderately long spurs. Wings ample. Fore wings acute; costa straight; exterior border convex, rather oblique.

1. *CHEMERINA CALIGENEARIA*.

Subcervino-cinerea; *alæ lineis interiore et exteriorè lunulisque marginalibus punctularibus fusciscentibus, linea submarginali albida vix undulata*; *posticæ albide*.

Ligia caligenaria, *Ramb. Ann. Soc. Ent. Fr.* ii. 35, pl. 2, f. 34.

Chemerina Ramburaria, *Boisd. Ind.* 193, 1525. *Dup. Lep. Sup.* iii. 614, pl. 50, f. 7. *Herr.-Sch. Eur. Schm.* iii. 95, 263, pl. 8, f. 48.

Chemerina caligenearia, *Guen. Phal.* ii. 243, 1319.

South France. Corsica.

a—c. Europe. From M. Becker's collection.

2. *CHEMERINA CUNEIFERA*.

Mas. Pallide cinereo-cervina; *antennæ late pectinatæ*; *alæ anticæ lineis duabus e strigis nigris, linea submarginali alba vulde angulosa, strigis marginalibus albis*; *posticæ albide, margine exteriorè subcervino subflexuoso*.

Male. Pale cinereous fawn-colour. Antennæ broadly pectinated. Fore wings with irregular black interior and exterior lines composed of short black streaks on the veins; submarginal line white, very deeply zigzag or composed of lanceolate angles, the angles emitting brown streaks to the exterior border; veins mostly white. Hind wings whitish, with a slight fawn-coloured tinge along the exterior border; the latter slightly flexuous, hardly undulating. Length of the body 7 lines; of the wings 18 lines.

a, b. Australia. Presented by Major-Gen. Hardwicke.

Fam. 18. HYBERNIDÆ.

Mas. Corpus gracile. Caput parvum. Proboscis nulla aut subobsoleta. Palpi disjuncti, brevissimi aut subobsoleti, frontem non attingentes. Antennæ breves, graciles, ramis pubescentibus aut ciliis fasciculatis. Thorax brevis; tegulæ hirsutæ. Abdomen conicum, sæpissime breve. Pedes læves, graciles; tibiæ posticæ non incrassatæ; calcaria gracilia. Alæ integræ, sericeæ, fimbria longa; anticæ strigatæ aut conspersæ, extus productæ. *Fœm.*—Aptera, aut subaptera.

Hybernidæ, *Guen. Phal.* ii. 244.

Male. Body slender. Head small. Proboscis none or rudimentary. Palpi rudimentary or very short, apart from each other, not rising to the front. Antennæ short, slender, with pubescent teeth or with fasciculated ciliæ. Thorax short, with hirsute tegulæ. Abdomen conical, generally short. Legs smooth, slender; hind tibiæ not incrassated, with slender spurs. Wings entire, silky, with long fringes. Fore wings streaked or speckled, elongated exteriorly. *Female.* Apterous, or with rudimentary wings.

- | | | | |
|-----------------------------|---------------|---|-------------------------------|
| A. Abdomen longum, lineare. | Pedes longi. | - | 1. ACALIA, <i>Guen.</i> |
| B. Abdomen breve, conicum. | Pedes breves. | | |
| A. Alæ asperæ. | - - - - | | 2. HYBERNIA, <i>Latr.</i> |
| B. Alæ læves. | - - - - | | 3. ANISOPTERYX, <i>Steph.</i> |

Genus 1. ACALIA.

Mas. Frons pilosa. Proboscis nulla aut subobsoleta. Palpi breves, hirsuti, porrecti aut incumbentes; articuli indistincti. Antennæ ramis parvis robustis setulosis. Thorax et pectus pilosa. Abdomen longum, lineare, depressum. Pedes longi, graciles; calcaria quatuor gracilia. Alæ anticæ oblongæ, acutæ; posticæ margine exteriori subflexo. *Fœm.*—Aptera.

Fidonia, p., *Treit.*

Egea, *Dup.*

Siona et Nyssia, *Boisd.*

Lygnioptera et Eugea, *Leder.*

Hypoplectis, *Herr.-Sch.*

Acalia, *Guen. Phal.* ii. 247.

Male. Front pilose. Proboscis none or rudimentary. Palpi short, porrect or incumbent, hirsute; joints indistinct. Antennæ with short stout setulose branches. Thorax and pectus pilose. Abdomen long, linear, depressed. Legs long, slender; hind tibiæ with four slender spurs. Fore wings oblong, acute; costa straight. Hind wings with the exterior border slightly bent. *Female.*—Apterous.

1. ACALIA PRAVATA.

Albida; alæ fuscescente radiatæ, puncto discali, linea exteriorè punctulari punctisque marginalibus nigris.

Geometra pravaria, Hubn. *Geom.* f. 432.

Ithysia pravaria, Hubn. *Verz. Schm.* 319, 3081.

Nyssia pravaria, Eversm. *Faun. Volg.-Ural.* 438. *Boisd. Ind.* 195, 1541.

Hypoplectis pravaria, Herr.-Sch. *Eur. Schm.* iii. 56, 144.

Acalia pravata, Guen. *Phal.* ii. 248, 1320.

South Russia. Lapland?

2. ACALIA FUMIDARIA.

Mas. Subferrugineo-fuscescens; alæ posticæ cinereæ.

Geometra fumidaria, Hubn. *Geom.* pl. 101, f. 520, 521.

Fidonia fumidaria, Treit. *Schm.* vi. 1, 319, 30. *Eversm. Faun. Volg.-Ural.* 292. *Dup. Lep. Sup.* iv. 386, pl. 80.

Hypoplectis fumidaria, Herr.-Sch. *Eur. Schm.* iii. 56, 145, pl. 59, f. 366.

Acalia fumidaria, Guen. *Phal.* ii. 249, 1321.

a, b. Europe. From M. Becker's collection.

Genus 2. HYBERNIA.

Mas. Proboscis subobsoleta. Palpi brevissimi, frontem non attingentes; articuli distincti. Antennæ subfasciculatæ, aut ramis pubescentibus. Abdomen conicum, incisuris hirsutis. Pedes breves, graciles. Alæ tenues, asperæ, strigatæ aut conspersæ; posticæ abdomen superantes. *Fæm.*—Alæ subobsoletæ.

Erannis, Theria et Agriopis, Hubn. *Verz. Schm.* 320, 321.

Hybernia, Latr. *Fam. Nat.* 477. *Guen. Phal.* ii. 249.

Anisopteryx, p., *Erannis et Cheimatobia*, p., *Steph.*

Fidonia, p., *Treit.*

Male. Proboscis nearly obsolete. Palpi very short, not extending to the front; joints distinct. Antennæ with fine pubescent branches or with little tufts of ciliæ. Abdomen conical; incisures hirsute. Legs short, slender. Wings delicate, streaked or speckled; some of the scales erect. Hind wings extending beyond the abdomen. *Female.*—Wings rudimentary.

Europe.

1. HYBERNIA RUPICAPRARIA.

Ferruginea; alæ punctis marginalibus nigris; anticæ gutta discali nigra diffusa, linea exterior nigricante subdenticulata cinereo marginata; posticæ cinereæ.

*Geometra rupicaprar*a, *Wien. Verz.* 105, 3. *Ill. N. Ausg. dess.* i. 416, 5. *Gotz. Ent. Beitr.* iii. 3, 395, 142. *Hubn. Geom.* pl. 42, f. 222.

Geometra brumata, *Hubn. Geom.* f. 509.

Geometra primaria, *Haw. Lep. Brit.* 305.

*Fidonia rupicaprar*a, *Treit. Schm.* vi. 1, 327, 34.

*Theria rupicaprar*a, *Hubn. Verz. Schm.* 321, 3096.

*Hybernia rupicaprar*a, *Dup. Lep.* iv. 314, pl. 156, f. 7. *Boisd. Ind.* 194, 1527. *Herr.-Sch. Eur. Schm.* iii. 59, 149. *Guen. Phal.* ii. 250, 1322.

*Cheimatobia rupicaprar*a, *Steph. Ill. Brit. Haust.* iii. 275, 2.

Hybernia ibicaria, *Herr.-Sch. Eur. Schm. Sup.* 71, f. 511.

a—i. England. Presented by B. Piffard, Esq.

j—r. England. From Mr. Stephens' collection.

s, t. England. From Mr. King's collection.

v—w. England.

x—z. Europe. From M. Becker's collection.

2. HYBERNIA BAJARIA.

Mas. Ferrugineo-cinerea; alæ conspersæ; anticæ lineis interiore et media nigris denticulatis punctisque marginalibus nigris, linea exterior denticulata cinerea; posticæ cinereæ.

———, *Kleem. Beitr.* 301, pl. 35, f. A—D. *Réaum. Ins.* ii. 372, pl. 30, f. 17—19.

Geometra bajaria, *Wien. Verz.* 315. *Hubn. Geom.* pl. 37, f. 194. *Ill. N. Ausg. dess.* i. 388, 10.

Geometra ærugaria, *Wien. Verz.* 101, 10. *Esp. Schm.* v. pl. 37, f. 3—6.

Geometra sericearia, *Bork. Eur. Schm.* v. 212, 89.

Fidonia bajaria, *Treit. Schm.* vi. 1, 371, 31.

Agriopis bajaria, *Hubn. Verz. Schm.* 320, 3092.

Hybernia bajaria, *Dup. Lep.* iv. 324, pl. 156, f. 8. *Boisd. Ind.* 194, 1532. *Herr.-Sch. Eur. Schm.* iii. 60, 154, pl. 57, f. 354. *Guen. Phal.* ii. 251, 1323.

a—g. Europe. From M. Becker's collection.

3. HYBERNIA LEUCOPHEARIA.

Mas. Albido-cinerea; alæ conspersæ, anticæ lineis interiore et exteriori nigris angulatis, linea media minus determinata, spatium basali spatiumque exteriori sæpe nigricantibus, hoc lineam albidam undulatam nonnunquam includente.

———, *Lyon, Ins.* 285, pl. 30, f. 1—5.

Geometra leucophæaria, *Wien. Verz.* 101, 11. *Hubn. Geom.* pl. 37, f. 195.

Geometra marmorinaria, *Esp. Schm.* pl. 37, f. 1, 2.

Geometra nigricaria, *Hubn. Geom.* pl. 35, f. 181. *Haw. Lep. Brit* 279.

Fidonia leucophæaria, *Treit. Schm.* vi. 1, 323, 32.

Agriopis leucophæaria, *Hubn. Verz. Schm.* 322, 3090.

Agriopis nigricaria, *Hubn. Verz. Schm.* 322, 3089.

Phalæna hirsutaria? *Fabr. Ent. Syst.* iii. 2, 148, 69.

Geometra brumaria, *Bork. Eur. Schm.* v. 90.

Hybernia leucophæaria, *Dup. Lep.* iv. 321, pl. 156, f. 4, 5. *Boisd. Ind.* 194, 1531. *Herr.-Sch. Eur. Schm.* iii. 60, 153, pl. 57, f. 350.

Anisopteryx leucophæaria, *Steph. Ill. Brit. Haust.* iii. 151, 1. *Wood, Ind.* 459.

Anisopteryx æscularia, *Wood, Ind.* 460.

a—w. England. From Mr. Stephens' collection.

x—bb. England.

cc—ee. Europe. From M. Becker's collection.

4. HYBERNIA AURANTIARIA.

Mas. Ochracea; alæ conspersæ, linea exteriori cinerea subrecta; posticæ pallidæ.

Geometra aurantiaria, *Hubn. Geom.* pl. 35, f. 184. *Esp. Schm.* v. 236, pl. 42, f. 9.

- Geometra mellearia*, *Bechst. Forst. Ins.* iii. 8, 676, 220.
Fidonia aurantiaria, *Treit. Schm.* vi. 1, 311, 26.
Erannis aurantiaria, *Hubn. Verz. Schm.* 320, 3087.
Phalæna prosapiaria? *Fabr. Ent. Syst.* iii. 2, 144, 57.
Geometra prosapiaria, *Haw. Lep. Brit.* 285.
Geometra incompletaria, *Haw. Lep. Brit.* 305.
Hybernia aurantiaria, *Dup. Lep.* iv. 312, pl. 151, f. 7. *Boisd. Ind.* 194, 1528. *Herr.-Sch. Eur. Schm.* iii. 60, 151, pl. 57, f. 351. *Guen. Phal.* ii. 252, 1325.
Hybernia prosapiaria, *Steph. Ill. Brit. Haust.* iii. 1543.
a, b. England. Presented by J. C. Dale, Esq.
c—r. England. From Mr. Stephens' collection.
s—x. England.
y, z. Europe. From M. Becker's collection.
aa. Sweden. Presented by the Entomological Club.

5. HYBERNIA PROGEMMARIA.

- Testacea ; alæ conspersæ, linea exteriorē fusca subundulata, punctis marginalibus nigris ; anticæ lineis duabus interioribus fuscis, fascia exteriorē ferruginea ; posticæ pallidæ.*
 ———, *Albin, Ins.* pl. 44, f. 72. *Deg. Ins.* i. pl. 20, f. 13—19 ; ii. 356, pl. 6, f. 3. *Kléem, Beitr.* pl. 26, f. 1—7. *Lyon, Ins.* 287, pl. 31, f. 6—11. *Vill. Ent. Linn.* pl. 6, f. 5.
Phalæna diversaria, *Fabr. Ent. Syst.* iii. 2, 157, 101.
Geometra capreolaria, *Esp. Schm.* v. 203, pl. 36, f. 8, 9.
Geometra marginaria, *Bork. Eur. Schm.* v. 91.
Geometra progemmaria, *Hubn. Geom.* pl. 35, f. 183.
Geometra luctuaria, *Haw. Lep. Brit.* 279.
Geometra connectaria, *Haw. Lep. Brit.* 286.
Geometra strictaria, *Haw. Lep. Brit.* 286.
Fidonia progemmaria, *Treit. Schm.* vi. 313, 27.
Erannis progemmaria, *Hubn. Verz. Schm.* 320, 3086.
Hybernia progemmaria, *Dup. Lep.* iv. 309. *Boisd. Ind.* 194, 1529. *Herr.-Sch. Eur. Schm.* iii. 60, 152, pl. 57, f. 346, 347. *Guen. Phal.* ii. 252, 1326.
Hybernia capreolaria, *Steph. Ill. Brit. Haust.* iii. 153, 1.
Hybernia connectaria, *Steph. Ill. Brit. Haust.* iii. 154, 2.
a—q. England. From Mr. Stephens' collection.
r—w. England.
x—aa. Europe. From M. Becker's collection.

6. HYBERNIA DEFOLIARIA.

Mas.—*Testacea aut ochracea; alæ conspersæ; antice gutta discali nigra, fasciis duabus ferrugineis distortis nigro marginatis nonnunquam obsoletis; posticæ pallidæ.* Fœm.—*Corpus pallidum, nigro guttatum et punctatum; pedes nigri, pallido cincti.*

- , *Göed. Ins.* ii. 43. *Albin, Ins.* pl. 100, f. e—h.
Réaum. Ins. ii. 370, pl. 30, f. 1—10. *Roës. Ins.* iii. pl. 14, 40.
Wilkes, Engl. Moths, pl. 72. *Vill. Ent. Linn.* ii. 312, 439.
Phalæna-Geometra defoliaria, *Linn. Syst. Nat.* 3, 225; *Faun. Suec.* 1238. *Clerck, Icon.* pl. 7, f. 4. *Gmel. ed. Syst. Nat.* i. 5, 2468, 689.
Phalæna defoliaria, *Fabr. Sp. Ins.* ii. 249, 40; *Mant. Ins.* ii. 191, 56; *Ent. Syst.* iii. 2, 148, 68.
Geometra defoliaria, *Wien. Verz.* 105, 1. *Mull. Faun. Frid.* 48, 424; *Zool. Dan.* 126, 1451; *Naturf.* xi. 70, 29. *Schr. Faun. Boic.* ii. 2, 20, 1638. *Fuess. Schw. Ins.* 40, 766. *Ill. N. Ausg. dess.* i. 415. *Bork. Eur. Schm.* v. 206, 86. *Esp. Schm.* v. 200, pl. 36, f. 1—7. *Sepp. Ins.* ii. pl. 6, f. 1—9. *Hubn. Geom.* pl. 35, f. 182; pl. 99, f. 510. *Haw. Lep Brit.* 284.
Fidonia defoliaria, *Treit. Schm.* vi. 315, 28.
Erannis defoliaria, *Habn. Verz. Schm.* 320, 3085.
Hybernia defoliaria, *Curt. Brit. Ent.* pl. 703. *Dup. Lep.* iv. 304, pl. 155, f. 3. *Steph. Ill. Brit. Haust.* iii. 155, 4. *Boisd. Ind.* 194, 1530. *Herr.-Sch. Eur. Schm.* iii. 60, 150. *Guen. Phal.* ii. 253, 1328.

a—p. England. From Mr. Stephens' collection.

q—bb. England.

cc—ee. Europe. From M. Becker's collection.

ff—ii. ——— ?

Country unknown.

7. HYBERNIA ONYTARIA.

Mas. *Testaceo-cinerea, parva, rufescente varia; alæ anticæ umbris transversis vix conspicuis; posticæ dentatæ.*

Hybernia Onytaria, *Guen. Phal.* ii. 253, 1327.

Genus 3. ANISOPTERYX.

Mas. Proboscis nulla aut subobsoleta. Palpi brevissimi, squamosi, disjuncti; articuli indistincti. Antennarum fasciculi e ciliis subcontortis. Abdomen conicum; incisuri hirsuti. Pedes graciles; calcaria parva. Alæ integræ, læves, sericeæ, tenuissimæ; anticæ trigonæ, apices versus elongatæ; posticæ marginis exterioris flexura rotundata.

Hybernia, p., *Treit.*; *Dup.*

Erannis et Alsophila, *Hubn. Verz. Schm.* 320.

Anisopteryx, *Steph. Ill. Brit. Haust.* iii. 151. *Guen. Phal.* ii. 254.

Male. Proboscis none or rudimentary. Palpi rudimentary, squamous, apart from each other; joints indistinct. Antennæ with fasciculated slightly frizzled ciliæ. Abdomen conical; incisures hirsute. Legs slender; hind tibiæ with short spurs. Wings entire, smooth, silky, very delicate. Fore wings triangular, elongated towards the tips. Hind wings with a rounded flexure on the exterior border.

1. ANISOPTERYX ÆSCULARIA.

Cinerea; alæ litura discali punctisque marginalibus nigris; anticæ lineis duabus cuneatis nigris albido marginatis; posticæ pallidiores.

———, *Lyon*, 280, pl. 29, f. 1—9.

Geometra æscularia, *Wien. Verz.* 102, 12. *Ill. N. Ausg. dess.* i. 389, 12. *Hubn. Geom.* pl. 36, f. 189. *Haw. Lep. Brit.* 306.

Geometra murinaria, *Bork. Eur. Schm.* v. 210, 88. *Esp. Schm.* v. 198, pl. 35, f. 5, 6.

Geometra aceraria, *Hubn. Geom.* f. 514.

Geometra apteraria, *Haw. Lep. Brit.* 306.

Geometra ligustriaria, *Lang. Verz.* ii. 180, 1255.

Fidonia æscularia, *Treit. Schm.* vi. 325, 33.

Alsophila æscularia, *Hubn. Verz. Schm.* 321, 3093.

Hybernia æscularia, *Dup. Lep.* v. 318, pl. 156, f. 3.

Anisopteryx æscularia, *Steph. Ill. Brit. Haust.* iii. 152, 2. *Boisd. Ind.* 193, 1524. *Herr.-Sch. Eur. Schm.* iii. 106, 1. *Guen. Phal.* ii. 255, 1329.

Anisopteryx capreolaria, *Wood, Ind.* 461.

a—n. England. From Mr. Stephens' collection.

o. England. From Mr. King's collection.

p—u. England.

w—y. Europe. From M. Becker's collection.

2. ANISOPTERYX ACERARIA.

Mas. *Subfuscescente-cinerea; alæ puncto discali nigricante; anticæ linea exteriorē denticulata fuscescente vix determinata; posticæ cinereæ.*

Geometra aceraria, *Wien. Verz.* 104, 13. *Ill. N. Ausg. dess.* i. 389, 13. *Gotze, Ent. Beitr.* iii. 3, 393, 125. *Hubn. Geom.* pl. 35, f. 185; pl. 99, f. 514.

Geometra quadripunctaria, *Esp. Schm.* v. 205, pl. 36, f. 10.

Geometra cunicularia, *Esp. Schm.* pl. 43, f. 5, 6.

Fidonia aceraria, *Treit. Schm.* vi. 318, 29.

Erannis aceraria, *Hubn. Verz. Schm.* 320, 3088.

Hybernina aceraria, *Dup. Lep.* iv. 316, pl. 156, f. 1. *Boisd. Ind.* 194, 1526.

Anisopteryx aceraria, *Herr.-Sch. Eur. Schm.* iii. 106, 2, pl. 57 f. 348.

a, b. Europe. From M. Becker's collection.

Fam. 19. LARENTIDÆ.

Corpus sæpissime gracile. Proboscis semper determinata. Palpi compressi, approximati, sæpe rostriformes, vix unquam ascendentes. Antennæ maris sæpe pubescentes, nonnunquam pectinatae. Pedes læves, graciles; tibiæ posticæ non incrassatae, sæpissime quadricalcaratae. Alæ læves, velutinæ aut sericeæ, sæpissime integre; anticæ lineis undulatis.

Larentidæ, *Guen. Phal.* ii. 257.

Body generally slender. Proboscis always conspicuous. Palpi compressed, approximate, very generally porrect or incumbent, rostriform when they extend beyond the front. Antennæ simple, sometimes pubescent or pectinated in the male, never plumose. Abdomen more or less long, often banded or marked with rows of black points or dots in the sutures. Legs smooth, slender; fore tibiæ about half the length of the fore femora; hind tibiæ not incrassated, very generally with four well-developed spurs. Wings smooth, velvety or silky, not angular, rarely dentate. Fore wings with undulating lines, which are often numerous.

- A. Alæ fœm. subobsoletæ. - - 1. CHEIMATOBIA, *Steph.*
 B. Alæ fœm. bene determinatæ.
 A. Alarum anticarum margo exterior valde angulatus.
 a. Palpi caput paullo superantes. 30. DINEURODES, *Guen.*
 b. Palpi caput longe superantes. - 33. CHALASTRA, *Walk.*
 B. Alarum anticarum margo exterior non valde angulatus.
 A. Tibiæ posticæ bicalcaratæ.
 a. Palpi filiformes. - - 9. RHOPALODES, *Guen.*
 b. Palpi non filiformes. - - 10. SAURIS, *Guen.*
 B. Tibiæ posticæ maris calcaribus nullis. 11. REMODES, *Guen.*
 C. Tibiæ posticæ quadricalcaratæ.
 a. Metatarsus posticus incrassatus. - 13. THERA, *Steph.*
 b. Metatarsus posticus non incrassatus.
 i. Prothorax antice cristatus. - 29. PELLURGA, *Hubn.*
 ii. Prothorax antice non cristatus.
 * Palpi maris et fœm. diversi. 5. MICRODES, *Guen.*
 ** Palpi maris et fœm. non diversi.
 † Palpi articulo 3o spatulato. 27. SPARGANIA, *Guen.*
 †† Palpi articulo 3o non spatulato.
 † Palpi filiformes. - 7. COLLIX, *Guen.*
 †† Palpi non filiformes.
 § Alæ anticæ fasciculo discali.
 8. LEPIODES, *Guen.*
 §§ Alæ anticæ fasciculo nullo discali.
 × Alæ posticæ parvæ.
 12. LOBOPHORA, *Curt.*
 ×× Alæ posticæ non parvæ.
 + Abdomen in utroque sexu cristatum.
 26. SYRTODES, *Guen.*
 ++ Abdomen non aut vix cristatum.
 ‡ Palpi ascendentes.
 ∞ Pedes non longissimi.
 14. POLYCLYSTA, *Guen.*
 ∞ Pedes longissimi.
 25. POLYSEMIA, *Guen.*
 ++++ Palpi non ascendentes.
 ∞ Alæ fundo nigro.
 17. SCORDYLIA, *Guen.*
 ∞ Alæ fundo non nigro.
 × Alæ nigro-albæ. 18. MELANIPPE, *Dup.*
 ×× Alæ non nigro-albæ.
 0 Alæ sæpissime dentatæ.

- Corpus gracile. - 23. SCOTOSIA, *Steph.*
- — Corpus robustum.

24. PTEROCYPHA, *Herr.-Sch.*

00 Alæ non dentatæ.

- Pedes breviusculi. 19. ANTICLEA, *Steph.*
- — Pedes non breviusculi.

: Abdomen subdepressum.

21. CAMPTOGRAMMA, *Steph.*

:: Abdomen non depressum.

v Corpus sat robustum.

< Alæ posticæ discolores.

15. YPSIPETES, *Steph.*

< < Alæ posticæ non discolores.

20. COREMIA, *Guen.*

vv Corpus gracile.

> Antennæ breves.

< Alæ posticæ dentatæ.

v Pedes sat robusti.

22. PHIBALAPTERYX, *Steph.*

vv Pedes graciles. 34. ELVIA, *Walk.*

< < Alæ posticæ integræ.

v Thorax posticæ cristatus.

16. MELANTHIA, *Dup.*

vv Thorax postice non cristatus.

Δ Alæ angustæ.

6. EUPITHECIA, *Curt.*

ΔΔ Alæ non angustæ.

v Abdomen longissimum.

31. SYBARITES, *Guen.*

vv Abdomen non longissimum.

. Palpi articulis distinctis.

2. OPORABIA, *Steph.*

.. Palpi articulis indistinctis.

.. Palpi frontem superantes.

3. LARENTIA, *Treit.*

.. .. Palpi frontem vix superantes.

4. EMMELESIA, *Steph.*

> > Antennæ non breves.

< Palpi articulo 3o non filiformi.

28. CIDARIA, *Treit.*

< < Palpi articulo 3o filiformi.

32. PSALIODES, *Guen.*

Genus 1. CHEIMATOBIA.

Mas. Corpus gracile. Frons plana, bicolor. Palpi incumbentes, disjuncti, brevissimi; articuli indistincti. Antennæ breves, fasciculato-ciliatæ. Thorax brevis. Abdomen conicum, gracile. Pedes graciles, læves; tibiæ posticæ calcaribus quatuor sat longis. Alæ integræ, tenues, sericeæ; anticæ trigonæ, apice obtusæ, margine exteriori subrecto, lineis undulatis confusis; posticæ abdomen superantes.

Acidalia, p., *Treit.*

Operophtera, *Hubn. Verz. Schm.* 321.

Larentia, p., *Dup.; Boisd.*

Cheimatobia, *Steph. Ill. Brit. Haust.* iii. 274; *Herr.-Sch.; Guen. Phal.* ii. 258.

Male. Body slender. Front flat, of two colours. Palpi incumbent, apart from each other, extremely short; joints indistinct. Antennæ short, with fasciculated ciliæ. Thorax short. Abdomen conical, slender. Legs slender, smooth; hind tibiæ with four moderately long spurs. Wings entire, delicate, silky. Fore wings triangular, obtuse at the tips; exterior border nearly straight; lines undulating, confused. Hind wings extending beyond the abdomen. *Female.*—Wings rudimentary.

1. CHEIMATOBIA BRUMATA.

Mas. Fusco-cinerea; alæ anticæ lineis undulatis fuscis subobsoletis duabus submarginalibus sat distinctis; posticæ cinereæ.

————— *Réaum. Ins.* ii. 352, pl. 27, f. 9, 10. *Deg. Ins.* ii. pl. 24, f. 11—24; ii. 452. *Kleem, Beitr.* 256, pl. 31, f. 1—12. *DeVill. Ent. Linn.* ii. 357, 554.

Phalæna-Geometra brumata, *Linn. Syst. Nat.* i. 2, 874, 281; *Faun. Suec.* 1293. *Gmel. ed. Syst. Nat.* i. 5, 2488, 281.

Phalæna brumata, *Fabr. Sp. Ins.* ii. 263, 122; *Mant. Ins.* ii. 206, 184; *Ent. Syst.* iii. 2, 190, 223. *Fuessl. Schw. Ins.* 41, 796. *Schr. Faun. Boic.* ii. 2, 31, 1656. *Naturf.* vii. 132.

Geometra prunata, *Brahm, Ins. Kal.* ii. 1, 514, 376, pl. 31.

Phalæna hyemata, *Berl, Mag.* iv. 6, 612, 85. *Naturf.* xi. 85, 85.

Geometra brumata, *Wien. Verz.* 109, 9. *Bork. Eur. Schm.* v. 297, 136. *Esp. Schm.* v. 208, pl. 37, f. 7—14. *Ill. N. Ausg. dess.* i. 435, 9. *Gotze, Ent. Beitr.* iii. 3, 355, 281. *Mull. Zool. Dan.*

Prodr. 128, 1483. *Schw. Raup. Kal.* 136, 126; 322, 316.
Hubn. Geom. pl. 37, f. 191; pl. 80, f. 415; pl. 99, f. 509.
Haw. Lep. Brit. 305.

Acidalia brumata, *Treit. Schm.* vi. 2, 23, 15.

Operophtera brumata, *Hubn. Verz. Schm.* 321, 3098.

Larentia brumata, *Dup. Lep.* v. 408, pl. 200, f. 6. *Boisd. Ind.* 207, 1670.

Cheimatobia brumata, *Steph. Ill. Brit. Haust.* iii. 274, 1. *Herr.-Sch. Eur. Schm.* iii. 177, 206, pl. 57, f. 352. *Guen. Phal.* ii. 259, 1331.

a—s. England. From Mr. Stephens' collection.

t—z. England.

aa—cc. Europe. From M. Becker's collection.

dd, ee. Sweden. Presented by the Entomological Club.

2. CHEIMATOBIA BOREATA.

Fuscescente-cinerea; alæ anticæ subconspersæ, fasciis nebulosis obscurioribus vix conspicuis, venis nigricante strigatis; posticæ cinereæ.

Geometra boreata, *Hubn. Geom.* pl. 80, f. 413, 414.

Acidalia boreata, *Treit. Schm.* x. 204.

Larentia boreata, *Dup. Lep. Sup.* iv. 32, pl. 53. *Boisd. Ind.* 207, 1671.

Cheimatobia boreata, *Wood, Ind. Sup.* f. 1726. *Herr.-Sch. Eur. Schm.* iii. 177, 207, pl. 57, f. 353. *Guen. Phal.* ii. 260, 1332.

a—d. England. Presented by B. Cooke, Esq.

e, f. England. Presented by J. C. Dale, Esq.

g—l. England. Presented by E. Shepherd, Esq.

m—t. England. From Mr. Stephens' collection.

Genus 2. OPORABIA.

Mas et fœm.—Frons plana, bicolor. Palpi unicolores, frontem non superantes; articuli indistincti. Thorax brevis. Abdomen conicum, lituris dorsalibus nullis. Pedes graciles, læves; tibiæ posticæ calcaribus quatuor sat longis. Alæ integræ, amplæ, sericeæ, fimbria longa; anticæ apice rotundatæ, costa margineque exteriori subconvexis; posticæ abdomen superantes, costa pilosa. *Mas.*—Corpus gracile. Antennæ breves, fasciculato ciliatæ. *Fœm.*—Corpus spissum. Antennæ subsetulosæ, apice pubescentes.

Acidalia, p., *Treit.*

Oporinia, p., *Hubn. Verz. Schm.* 321.

Larentia, p., *Dup.*; *Boisd.*; *Herr.-Sch.*

Oporabia, *Steph. Ill. Brit. Haust.* iii 273. *Guen. Phal.* ii. 261.

Male and female. Front flat, of two colours. Palpi conspicuous, of one colour, not extending beyond the front; joints distinct. Thorax short. Abdomen conical, without dorsal marks. Legs slender, smooth; hind tibiæ with four moderately long spurs. Wings entire, ample, silky; fringe long. Fore wings rounded at the tips; costa and exterior border slightly convex. Hind wings extending beyond the abdomen; costa pilose. *Male.*—Body slender. Antennæ short, with fasciculated ciliæ. *Female.*—Body heavy. Antennæ very minutely setulose, pubescent at the tips.

1. OPORABIA DILUTATA.

Cinerea; alæ punctis marginalibus elongatis nigris; anticæ fasciis tribus e lineis triplicatis angulosis fuscis, punctis venarum elongatis nigris; posticæ pallide cinereæ, lineis duabus submarginalibus indistinctis angulosis.

———, *Albin, Ins.* pl. 45, f. 74. *Réaum. Ins.* ii. pl. 28, f. 1—8. *Lyon, Ins.* 274, pl. 28, f. 1—10.

Geometra dilutata, *Wien. Verz.* 109, 4. *Bork. Eur. Schm.* v. 290, 130. *Ill. N. Ausg. dess.* i. 434, 4. *Gotze, Ent. Beitr.* iii. 3, 397, 158. *Hubn. Geom.* pl. 36, f. 188. *Sepp, Schm.* vi. pl. 28, f. 1—7.

Acidalia dilutata, *Treit. Schm.* vi. 2, 26, 16.

Oporinia dilutata, *Hubn. Verz. Schm.* 322, 3100.

Larentia dilutata, *Dup. Lep.* v. 405, pl. 200, f. 5. *Boisd. Ind.* 207, 1669. *Herr.-Sch. Eur. Schm.* iii. 160, 140.

Oporabia dilutata, *Steph. Ill. Brit. Haust.* iii. 273, 1. *Guen. Phal.* ii. 262, 1333.

Phalæna ventilata, *Fabr. Ent. Syst.* iii. 191, 226.

Geometra autumnata, *Bork. Eur. Schm.* v. 132.

Geometra impluviata, *Bork. Eur. Schm.* v. 131.

Geometra quadrifasciata, *Bork. Eur. Schm.* v. 294, 133.

Geometra affiniata, *Bork. Eur. Schm.* v. 134.

Geometra carpinata? *Boisd. Eur. Schm.* v. 135.

Geometra inscriptata, *Donov. Brit. Ins.* xv. pl. 517.

Geometra fimbriata, *Haw. Lep. Brit.* 320.

a—z. England. From Mr. Stephens' collection.

aa—hh. England.

ii—kk. Europe. Presented by the Entomological Society.

ll—oo. Europe. From M. Becker's collection.

pp—ww. Nova Scotia. From Lieut. Redman's collection.

2. OPORABIA AUTUMNATA.

O. dilutatæ simillima ; alæ concolores, sericeæ, sordide albæ, nunquam viridescentes, lineis ex parte obsoletis apud costam distinctis, punctis strigulisque apud venas bene determinatis, linea exteriori magis recta minus dentata.

Oporabia autumnata, *Boisd. MSS. Guen. Phal.* ii. 264, 1334, pl. 18, f. 7.

Oporabia dilutata, *var.?*

Central France.

3. OPORABIA FILIGRAMMARIA.

Cinerea ; alæ punctis marginalibus nigris ; anticæ fasciis tribus obscurioribus fusco marginatis, linea transversa basali liturisque venarum nigris ; posticæ fascia exteriori indistincta.

Larentia filigrammaria, *Herr.-Sch. Eur. Schm.* iii. 160, 141, pl. 32, f. 194, 195.

Oporabia filigrammaria, *Guen. Phal.* ii. 265, 1335.

a—l. Scotland. From Mr. Stephens' collection.

m—o. Scotland. From Mr. Stevens' collection.

p—t. Scotland. From Mr. Foxcroft's collection.

v. Scotland.

Genus 3. LARENTIA.

Mas et fœm.—Corpus gracile. Frons unicolor. Palpi frontem superantes ; articuli indistincti. Antennæ breves. Pedes læves, sæpissime graciles ; tibiæ posticæ calcaribus quatuor longis. Alæ amplæ, integræ, velutinæ aut sericeæ, punctis marginalibus duplicatis ; anticæ lineis plurimis subparallelis. *Mas.*—Antennæ pubescentes, ciliatæ aut pectinatæ.

Acidalia, p., *Aspilates*, p., *Larentia*, p., *Treit. Schm.* vi. 2.

Larentia, *Dup.* ; *Boisd.* ; *Herr.-Sch.* ; *Guen.*

Euchlaena, Tephronia, Oporinia, Hydriomena, Euphyia, Malenydris, Entephria, Glaucopteryx, Chloroclysta, Amoebe, et Ochyraria, p., *Hubn. Verz. Schm.* 292, 317, 322, 326, 329, 331, 332, 333, 334.

Aplocera et Cidaria, p., *Steph.*

Eubolia, p., *Boisd.*

Male and female.—Body slender. Front of one colour. Palpi extending beyond the front; joints indistinct. Antennæ short. Abdomen often with sutures of a different colour. Legs smooth, most often slender; hind tibiæ with four long spurs. Wings ample, entire, velvety or silky, with a double row of marginal points. Fore wings with numerous nearly parallel lines. Hind wings rounded; lines nearly obsolete, except towards the border. *Male.*—Antennæ pubescent, ciliated, or with slender branches. *Female.*—Often stouter and smaller than the male. Antennæ filiform.

Europe.

Group 1.

Palpi breves. Alæ subtus maculis duabus obscurioribus; anticæ strigula apicali. *Fæm.*—Minor, crassior.

Group 2.

Alæ cineræ, nonnunquam cyanescentes, glaucescentes, aut viridescentes, sæpe sulphureo conspersæ.

Group 1.

1. LARENTIA RUPESTRATA.

Albida; alæ punctis marginalibus nigris; anticæ lineis quinque cervinis plus minusve denticulatis, 5a subduplicata; posticæ lineis duabus indistinctis.

Geometra rupestrata, *Wien. Verz.* 109, 6. *Bork. Eur. Schm.* v. 310, 142. *Ill. N. Ausg. dess.* i. 435, 6. *Gotze, Ent. Beitr.* iii. 3, 397, 160. *Hubn. Geom.* pl. 37, f. 192.

Phalæna rupestrata, *Fabr. Ent. Syst. Suppl.* 455, 206.

Acidalia rupestrata, *Treit. Schm.* vi. 2, 30, 18.

Oporinia rupestrata, *Herr.-Sch. Eur. Schm.* 322, 3102.

Larentia rupestrata, *Dup. Lep.* v. 428, pl. 201, f. 1. *Frey. Beitr.* pl. 137, f. 3, 4. *Boisd. Ind.* 207, 1672. *Herr.-Sch. Eur. Schm.* iii. 156, 128, pl. 31, f. 192. *Guen. Phal.* ii. 267, 1336.

Larentia Bassiaria, *Feisth. Ann. Soc. Ent. Fr.* 1834, 131, pl. 1, f. 2.

Alps. Piedmont.

a. Europe. From M. Becker's collection.

2. LARENTIA PARALLELARIA.

Cana ; alæ punctis marginalibus nigris ; anticæ acutæ, lineis duabus nigro-fuscis bene determinatis parallelis fere rectis extus fusco diffuse marginatis ; posticæ lineis duabus indistinctis.

———, *Deg. Ins.* ii. 357, pl. 6, f. 4. *De Vill. Ent. Linn.* ii. 311, 437 ; 325, 478.

Geometra parallelaria, *Bork. Eur. Schm.* v. 22.

Geometra vespertaria, *Hubn. Geom.* pl. 43, f. 226.

Aspilates vespertaria, *Treit. Schm.* vi. 137, 7. *Eversm. Faun. Volg.-Ural.* 373. *Frey. Beitr.* pl. 107, f. 2.

Euchlaena vespertaria, *Hubn. Verz. Schm.* 293, 2843.

Eubolia vespertaria, *Boisd. Ind.* 203, 1618.

Larentia vespertaria, *Herr.-Sch. Eur. Schm.* iii. 167, 170. *Guen. Phal.* ii. 268, 1337.

a. Europe. From M. Becker's collection.

3. LARENTIA DIDYMATA.

Cinerea ; alæ punctis marginalibus nigris ; anticæ olivaceo-fuscescente plus minusve nebulosæ, lineis nonnullis fuscis denticulatis apud costam nigris ; posticæ lineis indistinctis.

Phalæna-Geometra didymata, *Linn. Faun. Suec.* 1270. *Clerck, Icon.* pl. 6, f. 10. *Gmel. ed. Syst. Nat.* i. 5, 2484, 269.

Geometra scabrata, *Hubn. Geom.* pl. 44, f. 229. *Sepp. Schm.* vi. pl. 17, f. 1—9.

Geometra didymata, *Haw. Lep. Brit.* 306.

Geometra alpestrata, *Hubn. Geom.* pl. 62, f. 320.

Acidalia scabrata, *Treit. Schm.* vi. 2, 18, 12.

Acidalia alpestrata, *Treit. Schm.* vi. 2, 17, 11.

Tephronia scabraria, *Hubn. Verz. Schm.* 318, 3070.

Oporinia alpestrata, *Hubn. Verz. Schm.* 322, 3103.

Larentia scabraria, *Dup. Lep.* v. 195, pl. 183, f. 1, 2. *Frey. Beitr.* pl. 137.

Cidaria alpestrata, *Boisd. Ind.* 215, 1772.

Cidaria didymata, *Steph. Ill. Brit. Haust.* iii. 214, 1.

Larentia scabraria, *Herr.-Sch. Eur. Schm.* iii. 152, 114.

Larentia didymata, *Guen. Phal.* ii. 268, 1338.

a—m. England. From Mr. Stephens' collection.

n, o. England. From Mr. Bouchard's collection.

p—x. Scotland. From Mr. Dove's collection.

y—ee. England.

ff—jj. Europe. From M. Becker's collection.

Group 2.

4. LARENTIA FRIGIDARIA.

Mas. *Fuliginoso-fusca; antennæ ramis parvis remotis; abdomen breviusculum, robustum, apice quadratum; alæ fimbria concolori vix notata; anticæ flavescence-cinereo conspersæ, apice productæ, margine exteriori obliquo, spatio medio angusto non consperso, puncto discali lineaque exteriori dentata non conspersis; posticæ angustæ, pallidiores, linea media dentata non flexa.*

Larentia frigidaria, *Guen. Phal.* ii. 269, 1341.

Lapland.

5. LARENTIA MULTISTRIGARIA.

Pallide cinerea; alæ punctis marginalibus nigricantibus; anticæ fusco conspersæ, lineis plurimis denticulatis fuscis nigricante punctatis; posticæ lineis indistinctis.

Geometra multistrigaria, *Haw. Lep. Brit.* 306.

Larentia multistrigaria, *Steph. Ill. Brit. Haust.* iii. 212, 4. *Herr.-Sch. Eur. Schm.* iii. 160, 139, pl. 32, f. 196, 197; pl. 54, f. 329. *Guen. Phal.* ii. 270, 1342.

a, b. England. Presented by Benjamin Cooke, Esq.

c. England. Presented by Edward Shepherd, Esq.

d—t. England. From Mr. Stephens' collection.

v—w. England.

6. LARENTIA AUSTRIACARIA.

Cinerea; frons subochracea; antennarum rami longi, approximati, filiformes; abdomen breve; alæ anticæ fusco-cinereæ, productæ, fascia exteriori pallida lata dentata.

Larentia austriacaria, *Herr.-Sch. Eur. Schm. Sup.* 78, pl. 73, f. 450. *Guen. Phal.* ii. 270, 1343.

Mountains of Austria and Styria,

7. LARENTIA POLATA.

Fœm. *Cinerea*; *alæ albido nigroque alterne ciliatæ, anticæ fasciis angulosis albidis nigro marginatis.*

Malenydris Polata (Geometra æquivoca, Rheumaptera diluta), Geyer, *Zutr. Samml. Exot. Schmett.* v. 6, 403, f. 805, 806.

Larentia polata, Dup. *Lep.* v. 402, pl. 192, f. 4. Boisd. *Ind.* 207, 1666. Herr.-Sch. *Eur. Schm.* iii. 162, 149, pl. 69, f. 427. Guen. *Phal.* ii. 271, 1344.

Lapland. Labrador.

8. LARENTIA GELATA.

Fœm. *Fuliginoso nigro-fusca*; *alæ anticæ fasciis duabus cinereis vix pallidioribus, 2a dentata subrecta apud costam flexa, spatio medio pallidioris atomis cinereis, litura discali nigra bene determinata, linea submarginali indistincta maculari cinerea*; *posticæ pallide cinereæ, litura discali lineisque duabus parallelis arcuatis saturatioribus.* Var.—*Alæ anticæ albo-cinereæ, lineis atomisque nullis, basi spatioque medio fuliginoso-nigris*; *posticæ linea unica.*

Larentia gelata, Guen. *Phal.* ii. 271, 1345, pl. 14, f. 6.

Iceland.

9. LARENTIA CÆSIATA.

Cinerea; *alæ linea marginali interrupta nigra*; *anticæ lineis nonnullis basalibus nigricantibus, fasciis duabus fuscescentibus, 1a marginata lituram discalem nigricantem includente, 2a lineam submarginalem denticulatam albidam includente.*

———, Réaum. *Ins.* i. 386, pl. 29, f. 6—13?

Geometra cæsiata, Bork. *Eur. Schm.* v. 351, 169. Ill. N. *Ausg.* dess. i. 448, 6. Lang. *Verz.* 2. *Ausg.* 189, 1309. Gotze, *Ent. Beitr.* iii. 3, 393, 178. Hubn. *Geom.* pl. 53, f. 275. Haw. *Lep. Brit.* 330.

Larentia cæsiata, Treit. *Schm.* vi. 2. 89, 8. Dup. *Lep.* v. 398, pl. 199, f. 2. Boisd. *Ind.* 206, 1665. Herr.-Sch. *Eur. Schm.* iii. 161, 142. Guen. *Phal.* ii. 271, 1346.

Glaucopteryx cæsiata, Hubn. *Verz. Schm.* 332, 3198.

Geometra infrequentata, Haw. *Lep. Brit.* 330.

Geometra miata, Schw. pl. 20, f. 9—11?

Aplocera cæsiata, Steph. *Ill. Brit. Haust.* iii. 295, 1.

- a—p.* England. From Mr. Stephens' collection.
q—s. Scotland. From Mr. Foxcroft's collection.
t—z. England.
aa, bb. Europe. From M. Becker's collection.
cc. Italy. From Dr. Leach's collection.
dd—ii. Lapland. Presented by the Entomological Club.
jj. Alten, Finmark. Presented by F. Walker, Esq.

10. LARENTIA RUFICINCTATA.

Cinerea; abdomen basi lutescens; alæ nigro subtilissime lineolatæ, basi fasciisque tribus aut quatuor diffusis lutescentibus.

Aplocera flavicinctata, Steph. Ill. Brit. Haust iii. 296, 2, pl. 30, f. 3.

Larentia flavicinctata, Frey. Beitr. vi. pl. 504 ?

Larentia ruficinctata, Guen. Phal. iii. 544, 1346 bis.

a—c. Scotland. From Mr. Stephens' collection.

d—f. Scotland. From Mr. Foxcroft's collection.

1. LARENTIA CÆRULEATA.

Mas. Alba; alæ cyanescente variæ, lineis bene determinatis, spatii basalis margine fasciisque duabus mediis interruptis sat angustis viridescente-sulphureis, puncto discali distincto, linea submarginali alba flavo non aut vix notata; posticæ fascia marginali obscuriore lineam submarginalem albam valde dentatam includente. Fœm.—Cyaneo-cinerea; alæ anticæ lineis albis e maculis lunulatis; posticæ linea submarginali valde dentata.

Larentia cæruleata, Guen. Phal. ii. 273, 1347.

Pyrenees.

12. LARENTIA CYANATA.

Cana; alæ anticæ nigro conspersæ, basi fasciæque media antice dilatata glaucescentibus, punctis marginalibus strigæque discali nigris; posticæ puncto discali fasciisque duabus exterioribus vix conspicuis cinereis, linea marginali interrupta nigra.

Geometra cyanata, Hubn. Geom. pl. 62, f. 319.

Larentia cyanata, Treit. Schm. vi. 2, 96, 13. Dup. Lep. v. 396, pl. 199, f. 1. Boisd. Ind. 206, 1664. Herr.-Sch. Eur. Schm. iii. 161, 143. Delah. Schm. 279. Guen. Phal. ii. 274, 1348.

Glaucopteryx cyanata, Hubn. Verz. Schm. 332, 3199.

Alps of France, of Switzerland and of Styria.

13. LARENTIA RAVARIA.

Fœm. *L. cæsiatæ et L. nobiliariæ affinis; abdomen viridescens, incisuris pallidioribus; alæ anticæ plus elongatæ, margine exteriori magis recto, lineis flavescence-cinereis valde concisis, fasciis duabus pallidis bene determinatis interlineatis, lineis duabus exterioribus obscurioribus, linea submarginali valde dentata.*

Larentia ravaria, Leder. *Siber. Schm.* 31, pl. 6, f. 4. Guen. *Phal.* ii. 274, 1349.

Altai.

14. LARENTIA NOBILIARIA.

Cinerea; alæ anticæ fasciis diffusis obscurioribus apud costam nigricantibus, lineis nigricantibus subundulatis indistinctis; posticæ lineis tribus exterioribus vix conspicuis.

Larentia nobiliaria, Herr.-Sch. *Eur. Schm. Sup.* 79, pl. 73, f. 449, Delah. *Schm.* 276. Guen. *Phal.* ii. 274, 1350.

Alps of Switzerland, of Styria and of Austria.

15. LARENTIA TEMPESTARIA.

Albo-cinerea, magna; palpi suturate fusci, apice pallidæ; antennæ maris longissime pectinatæ; alæ sericeæ, spatio medio marginæque lato obscurioribus flavo conspersis.

Larentia tempestaria, Herr.-Sch. *Eur. Schm.* f. 516. Guen. *Phal.* ii. 275, 1351.

Alps of the Tyrol.

16. LARENTIA FLAVICINCTATA.

Cinerea; alæ punctis marginalibus nigris; anticæ nigricante conspersæ, lineis denticulatis lituraque discali nigris, fasciis interruptis vagis ochraceis.

Geometra flavicinctata, Hubn. *Geom.* pl. 68, f. 354.

Larentia flavicinctata, Treit. *Schm.* iii. 2, 91, 10. Delah. *Schm.* 278. Guen. *Phal.* ii. 275, 1352.

Larentia cæsiata, var., Treit. *Schm. Sup.* 211. Boisd. *Ind.* 206, 1665?

Entephria flavicinctata, Hubn. *Verz. Schm.* 332, 3196.

Alps, Piedmont.

17. LARENTIA TOPHACEATA.

Pallide viridescence-cinerea; alæ linea tenui interrupta nigricante; anticæ lineis albidis denticulatis diffusis; posticæ vix lineatæ.

Geometra tophaceata, *Wien. Verz.* 113, 16. *Ill. N. Ausg. dess.* i. 457, 16. *Gotze, Ent. Beitr.* iii. 3, 400, 188. *Hubn. Geom.* pl. 60, f. 309.

Cidaria tophaceata, *Treit. Schm.* iii. 162, 12. *Boisd. Ind.* 215, 1776.

Euphyia tophaceata, *Hubn. Verz. Schm.* 326, 3153.

Larentia tophaceata, *Herr.-Sch. Eur. Schm.* iii. 161, 144, pl. 32, f. 198, 190. *Guen. Phal.* ii. 276, 1353.

Alps. Pyrenees.

18. LARENTIA ABLUTARIA.

Cinerea; alæ fascia media obscuriore, lineis exterioribus et submarginali denticulatis albidis, punctis marginalibus nigris, fimbria fusco notata; anticæ lineis denticulatis maculaque costali subapicali fuscis.

Eubolia ablutaria, *Boisd. Ind.* 203, 1626.

Larentia olivearia, *Dup. Lep.* v. 190, pl. 183, f. 3.

Larentia flavicinctata, *Dup. Lep.* v. 400, pl. 199, f. 3.

Larentia infidaria, *Delah. Schm.* 280.

Larentia ablutaria, *Herr.-Sch. Eur. Schm.* iii. 159, 138, pl. 62, f. 382, 383. *Guen. Phal.* ii. 277, 1355.

South France. Alps of Switzerland.

19. LARENTIA SCHNEIDERARIA.

Mas et fœm. Parva; antennæ longæ, valde pectinatæ; alæ anticæ rufescente-ochraceæ, spatio medio nigricante non consperso; posticæ nigricantes, fascia pallida.

Larentia Schneideraria, *Leder. Syris. Schm.* 38, pl. 3, f. 8. *Guen. Phal.* ii. 278, 1356.

Syria.

20. LARENTIA INCULTARIA.

Pallide cinerea; alæ anticæ viridescente tinctæ, nigro conspersæ, lineis interioribus punctisque marginalibus nigris, fascia exteriori lineaque submarginali denticulata albidis; posticæ puncto discali nigro.

Larentia incultaria, Herr.-Sch. Eur. Schm. iii. 162, 147, pl. 60, f. 372. Delah. Schm. 283. Guen. Phal. ii. 278, 1357.

Alps of Switzerland and of Styria. Austria.

21. LARENTIA AQUEATA.

Olivaceo-cinerea; palpi nigro-fusci; alæ punctis marginalibus duplicatis nigris; anticæ lineis nonnullis obscurioribus denticulatis apud costam nigris, fascia exteriori albida dentata; posticæ albido-cinereæ, lineis exterioribus indistinctis subundulatis.

Geometra aqueata, Hubn. Geom. pl. 68, f. 353.

Cidaria aqueata, Treit. Schm. iii. 163, 13.

Hydriomena aqueata, Hubn. Verz. Schm. 322, 3108.

Eubolia lotaria, Boisd. Ind. 203, 1625.

Larentia aqueata, Herr.-Sch. Eur. Schm. iii. 158, 134, pl. 9, f. 50; pl. 20, f. 121, 122 (lotaria). Boisd. Ind. 279, 1358. Guen. Phal. ii. 279, 1358.

Alps of Switzerland and of Styria.

22. LARENTIA NEBULATA.

Cinereo-albida; frons subalba; antennæ maris pubescentes; alæ anticæ fascia media dentata obscuriore postice angustata, lineis apud venas e punctis nigricantibus; posticæ spatio interiore flexo marginibus obscurioribus.

Cidaria nebulata, Treit. Schm. vi. 2, 164, 14.

Geometra nebulata, Hubn. Geom. f. 571.

Larentia nebulata, Frey. Beitr. f. 66. Herr.-Sch. Eur. Schm. iii. 161, 146, pl. 60, f. 370, 371. Guen. Phal. ii. 279, 1359.

Alps of Switzerland? and of Styria.

23. LARENTIA SENECTIONARIA.

Mas et fœm. *Rufescente-alba; alæ lituris saturatioribus punctisque marginalibus duplicatis fuscis subobsoletis; posticæ lituris obsoletis apud marginem interiorem subobsoletis.*

Larentia senectaria, Herr.-Sch. Eur. Schm. Sup. 79, f. 528. Guen. Phal. ii. 280, 1360.

Dalmatia.

24. LARENTIA SAXICOLATA.

Mas et fœm. *L. nebulatæ valde affinis; antennæ maris submoniliformes, vix pubescentes; alæ anticæ spatio medio nigro-cinereo, venis non punctatis, linea submarginali sat determinata.*

Larentia saxicolata, Lederer, MSS. Guen. Phal. ii. 280, 1361.
L. nebulata, var. ?

Austria.

25. LARENTIA ADUMBRARIA.

Mas et fœm. *Albo-cinerea; frons nivea; palpi nigro-fusci; antennæ maris vix pubescentes; alæ margine saturatiore; anticæ apice obtusæ, nebula nulla flavescens, striga apicali obliqua pallida indistincta, spatio medio interlineato apud margines paullo saturatiore, fascia exterior bene determinata, linea exterior obscuriore dentata arcuata.*

Larentia adumbraria, Herr.-Sch. Eur. Schm. Sup. 79, f. 530, 531. Guen. Phal. ii. 281, 1363.

Dalmatia.

26. LARENTIA INCURSATA.

Cinerea; alæ linea exterior albida, puncto discali punctisque marginalibus nigris, fimbria fusco notata; anticæ violaceo sub-tinctæ, linea basali simplici lineisque duabus duplicatis dentatis nigris.

Geometra incurcata, Hubn. Geom. f. 351.

Malenydris incurcata, Hubn. Verz. Schm. 329, 3176.

Larentia incurcata, Herr.-Sch. Eur. Schm. iii. 159, 135, pl. 42, f. 255—257. Delah. Schm. 270. Guen. Phal. ii. 282, 1364.

Var. *Larentia decrepitaria*, Zett. Ins. Lapp.

Bohemia. Alps of Switzerland.

27. LARENTIA SALICATA.

Cinerea; alæ fusciscente conspersæ, punctis marginalibus nigro-fuscis; anticæ lineis diffusis denticulatis indeterminatis fuscescentibus, puncto discali nigricante; posticæ sublineatæ.

Geometra salicata, *Wien. Verz.* 109, 11. *Ill. N. Ausg. dess.* i. 436, 11. *Gotze, Ent. Beitr.* iii. 3, 397, 163. *Hubn. Geom.* pl. 53, f. 273.

Acidalia salicaria, *Treit. Schm.* vi. 2, 46, 31.

Malenydris salicata, *Hubn. Verz. Schm.* 329, 3177.

Eubolia salicaria, *Dup. Lep.* v. 193, pl. 183, f. 8. *Boisd. Ind.* 203, 1622.

Zerynthia latentaria, *Curt. Brit. Ent.* vii. pl. 296.

Cidaria latentaria, *Steph. Ill. Brit. Haust.* iii. 217, 6.

Larentia salicata, *Herr.-Sch. Eur. Schm.* iii. 159, 137, pl. 34, f. 207, 208. *Guen. Phal.* ii. 282, 1365.

Larentia Podevinaria, *Herr.-Sch. Eur. Schm.* iii. 159, 136, pl. 41, f. 250.

a, b. England. Presented by F. Bond, Esq.

c, d. England. Presented by W. W. Walcott, Esq.

e—p. England. From Mr. Stephens' collection.

q. England. From Mr. Foxcroft's collection.

r. Scotland. From Mr. Foxcroft's collection.

s. Alten, Finmark. Presented by F. Walker, Esq.

t, v. Nice. From Dr. Leach's collection.

28. LARENTIA SANDOSARIA.

Fœm. Subcarnea; alæ vix dentatæ, punctis marginalibus nigris oblongis duplicatis; anticæ ex parte cinereo conspersæ, basi spatioque medio trilineato fuscescentibus, lineis undulato dentatis, litura discali, linea submarginali tenui pallida dentata; posticæ magis cinereæ, lineis plurimis parallelis.

Larentia Sandosaria, *Herr.-Sch. Eur. Schm. Sup.* 79, f. 517. *Guen. Phal.* ii. 284, 1366.

Malaga.

29. LARENTIA FRUSTATA.

Pallide cinerea; alæ lineis denticulatis obscurioribus vix conspicuis, punctis marginalibus nigricantibus; anticæ fasciis duabus viridescentibus, puncto discali fusco elongato.

Acidalia frustata, *Treit. Schm.* vi. 2, 50, 34.

Cidaria frustraria, *Boisd. Ind.* 215, 1774. *Dup. Lep. Sup.* iv. 244, pl. 71, f. 5.

Larentia frustrata, *Herr.-Sch. Eur. Schm.* iii. 161, 145, pl. 34, f. 205, 206. *Guen. Phal.* ii. 285, 1368.

Var. Larentia muscosata, *Donz. Ann. Soc. Ent. Fr.* vi. 478, 8, pl. 18, f. 8.

South France. Germany. Austria. Hungary.

a. Europe. From M. Becker's collection.

30. LARENTIA KOLLARIARIA.

Viridescens; abdomen cinereum, guttis dorsalibus nigris; alæ punctis marginalibus nigris; anticæ lineis plurimis denticulatis nigris, lineis quinque albis, 1a 2a 3a 4a denticulatis, 4a guttulari, 5a marginali, litura discali atra; posticæ cinereæ, lineis duabus denticulatis indistinctis fuscescente-cinereis.

Larentia Kollariaria, *Herr.-Sch. Eur. Schm.* iii. 149, 103, pl. 40, f. 243, 244. *Delah. Schm.* 241. *Guen. Phal.* ii. 285, 1369.

Cidaria larentiaria, *Bruand, Ann. Soc. Ent. Fr.* 1854. *Bull.* 26.

Larentia lætaria (species distincta?) *Delah. Schm.* 241, f. 6. *Herr.-Sch. Eur. Schm.* f. 555.

Alps of Switzerland and of Austria.

31. LARENTIA TURBATA.

Nigricans; alæ fimbria albida nigricante notata; anticæ basi cinereæ, fascia subarcuata alba; posticæ albæ, puncto discali margineque nigris.

Geometra turbata, *Hubn. Geom.* pl. 49, f. 255.

Cidaria turbaria, *Treit. Schm.* vi. 2, 215, 40. *Dup. Lep.* v. 288, pl. 191, f. 3.

Melanippe turbaria, *Boisd. Ind.* 216, 1784.

Larentia turbata, *Herr.-Sch. Eur. Schm.* iii. 147, 92. *Delah. Schm.* 232. *Guen. Phal.* ii. 286, 1370.

Alps of Europe. Siberia.

32. LARENTIA OLIVATA.

Olivacea; palpi elongati; antennæ maris subpectinatæ; alæ punctis marginalibus nigris, anticæ fascia fusca nigro interlineata et marginata lituram discalem nigram obliquam includente extus albido undulatim marginata, linea denticulata punctisque nigris submarginalibus; posticæ cinereæ, lineis duabus undulatis albidis.

Geometra olivata, *Wien. Verz.* 112, 7. *Bork. Eur. Schm.* v. 361, 174. *Ill. N. Ausg. dess.* i. 449, 7. *Gotze, Ent. Beitr.* iii. 3, 399, 179. *Hubn. Geom.* pl. 59, f. 307. *Haw. Lep. Brit.* 304.
Cidaria olivaria, *Treit. Schm.* vi. 2, 157, 10. *Steph. Ill. Brit. Haust.* iii. 218, 9.

Amoche olivata, *Hubn. Verz. Schm.* 333, 3204.

Larentia olivata, *Dup. Lep. Sup.* iv. 20, pl. 52, f. 3. *Herr.-Sch. Eur. Schm.* iii. 148, 98. *Delah. Schm.* 237. *Guen. Phal.* ii. 287, 1371.

Larentia aptata, *Dup. Lep.* v. 331, pl. 191, f. 5.

a—i. England. From Mr. Stephens' collection.

j. England. From Mr. Foxcroft's collection.

k—n. England.

33. LARENTIA APTATA.

Pallide cinerea; alæ punctis marginalibus elongatis nigris; anticæ fasciis duabus subdentatis fuscis nigricante marginatis, 1a basali, 2a punctum discale nigrum includente, margine exteriori sordide cinereo, linea submarginali vix conspicua; posticæ cinereæ, linea media undulata.

Geometra aptata, *Hubn. Geom.* pl. 67, f. 349.

Cidaria aptata, *Treit. Schm.* vi. 2, 142, 2.

Ochyria aptata, *Hubn. Verz. Schm.* 334, 3216.

Larentia aptata, *Herr.-Sch. Eur. Schm.* iii. 148, 99. *Guen. Phal.* ii. 287, 1372.

Larentia Pontissalaria, *Bruand, Ann Soc. Ent. Fr.* 1846, 204, pl. 8, f. 3.

France. Switzerland. Styria. South Russia.

34. LARENTIA PECTINATARIA.

Viridis; thorax nigro faciat; alæ linea marginali interrupta nigra; anticæ lineis quatuor dentatis albis, 1a 2a 3a que nigro notatis; posticæ cinereæ, lineis denticulatis obscurioribus.

———, *De Vill. Ent. Linn.* ii. 320, 458.

Phalæna pectinataria, *Fuessl. N. Mag.* i. 2, 218.

Geometra pectinataria, *Knoch, Beitr.* i. 55, pl. 3, f. 10. *Gotze, Ent. Beitr.* iii. 3, 389, 100. *Don. Brit. Ins.* xiv. pl. 479, f. 1.

Phalæna viridaria, *Fabr. Ent. Syst.* iii. 2, 152, 83.

Geometra viridaria, *Bork. Eur. Schm.* v. 416, 204. *Haw. Lep. Brit.* 304.

Phalæna rectangulata, *Berl. Mag.* ix. 6, 606, 71. *Naturf.* xi. 82, 71.

Geometra miata, *Hubn. Geom.* pl. 57, f. 292. *Esp. Schm.* v. 252, pl. 45, f. 2.

Cidaria miaria, *Treit. Schm.* vi. 2, 159, 11. *Steph. Ill. Brit. Haust.* iii. 218, 8.

Chloroclysta miata, *Hubn. Verz. Schm.* 332, 3200.

Larentia miata, *Dup. Lep.* v. 333, pl. 194, f. 7. *Herr.-Sch. Eur. Schm.* iii. 166, 167. *Delah. Schm.* 292.

Eubolia miaria, *Boisd. Ind.* 203, 1627.

Larentia pectinataria, *Guen. Phal.* ii. 288, 1374.

a, b, England. Presented by F. Bond, Esq.

c—l. England. From Mr. Stephens' collection.

m. England. From Mr. Stevens' collection.

n. England. From Mr. Foxcroft's collection.

o, p. England.

q, r. Europe. From M. Becker's collection.

Several of the following species of *Larentia* hardly belong to that genus, but seem to agree with it better than with any division of the *Larentidæ*, and their peculiar characteristics are not sufficiently prominent to entitle them to new generic names.

North America.

35. LARENTIA IMPLICATA.

Mas. Cinerea; palpi ferruginei, basi albi; antennæ validæ, filiformes; abdomen punctis pallide fuscis bilineatum; alæ anticæ nebulosæ, ferrugineo et nigricante variæ, spatio medio

lato e strigis nigris venarum incluso maculas duas albo-cinerea punctaque dua nigra includente, macula 1a punctum discalè includente flavescente fusco marginata, 2a medio coarctata apud marginem interiorem, fimbria fusco notata; posticæ albidæ, margine fuscescente punctis nigris.

Larentia implicata, Guen. *Phal.* ii. 284, 1307.

California.

36. LARENTIA? MOROSATA.

Mas. *Testacea, albo varia; alæ anticæ gutta discali, maculis costalibus, fascia postmedia apiceque fuscis; posticæ ad marginem posticum obscuriores.*

Dysstroma morosata (*Geometra æquivoca*, *Petrophora varia*), Geyer, *Zutr. Samml. Exot. Schm.* 21, 440, f. 879, 880.

North America.

37. LARENTIA? FIDONIATA.

Mas et fœm. *Albida; antennæ maris pectinatæ; thorax cervinus; alæ cervino subconspersæ; anticæ fasciis tribus cervinis diffusis, 1a basali, 2a 3aque e linea albida integra aut guttulari divisis, gutta discali magna obscure cervina; posticæ gutta discali parva. Var. β.—Alæ anticæ lineato fasciatæ. Var. γ.—Alæ anticæ fasciis fuscis valde indeterminatis.*

Male and female. Whitish. Palpi hardly extending beyond the head. Antennæ of the male moderately pectinated. Thorax fawn-colour. Wings thinly speckled with fawn-colour. Fore wings with three more or less diffuse fawn-coloured bands; first band extending occasionally to the base; second divided from the third, which is marginal, by a complete or guttular whitish line; these bands are indistinctly bordered and interlined with darker fawn-colour; discal dot between the first and second bands large, dark fawn-colour. Hind wings with a small discal dot and occasionally with traces of lines. *Var. β.*—Fore wings with the bands divided into lines. *Var. γ.*—Fore wings with the bands dark brown and very irregular. Length of the body 5—6 lines; of the wings 12—14 lines.

a—f. Trenton Falls, New York. Presented by E. Doubleday, Esq
g—l. Nova Scotia. From Lieut. Redman's collection.

38. LARENTIA FLAMMIFERA.

Fœm. *Glaucocinerea*; *alæ* linea marginali nigra interrupta; anticæ lineis nonnullis denticulatis nigris, fascia interiore ochracea pallido marginata, lineis exteriori et submarginali albidis denticulatis fasciam ochraceam postice obsoletam includentibus, litura apicali guttaque elongata discali nigris; posticæ albido-cinereæ.

Female. Glaucous-cinereous. Palpi extending very little beyond the head. Wings with a marginal black line, which is interrupted opposite each vein. Fore wings with a blackish basal bent line, near which there is a bright ochraceous paler-bordered band; several diffuse black denticulated lines; exterior and submarginal lines whitish, denticulated, including an ochraceous band, which is nearly obsolete, except in front; teeth of the submarginal line tipped with black; apical dot and elongated discal dot black; costa and exterior border slightly convex, the latter rather oblique. Hind wings whitish cinereous. *Var. β.*—Fore wings with the exterior emitting a much shorter tooth towards the discal mark; exterior band quite obsolete hindward; apical black mark much larger; marginal black line divided into pairs of points. Length of the body 5 lines; of the wings 14—15 lines.

a, b. Trenton Falls, New York. Presented by E. Doubleday, Esq.
c. Orilla, West Canada. From Mr. Bush's collection.

39. LARENTIA CERVINIFASCIA.

Fœm. *Cinerea*, nigro subconspersa; *alæ* punctis marginalibus nigris subconnexis; anticæ basi fasciæque latissima albido marginata costam non attingente cervinis, linea submarginali albida denticulata, striga apicali nigra obliqua, strigula discali parva ferruginea; posticæ albidæ, puncto discali fusco.

Female. Cinereous. Head, thorax and fore wings minutely black-speckled. Palpi slender, not extending beyond the head. Wings with minute black marginal points, which are nearly connected. Fore wings with a fawn-coloured tinge at the base, and with a very broad fawn-coloured whitish-bordered middle band, which is dilated on the outer side and does not extend to the costa; submarginal line whitish, denticulated, traversing a black irregular oblique apical streak; a small oblique ferruginous streak in the band; costa and exterior border slightly convex, the latter very

oblique. Hind wings whitish, with a brown discal point and some traces of an exterior brown line. Length of the body 5 lines; of the wings 14 lines.

a. Orilla, West Canada. From Mr. Bush's collection.

40. LARENTIA BASALIATA.

Fœm. *Cinerea*; *palpi oblique ascendentes*; *alæ punctis marginalibus nigris*; *anticæ cervino tinctæ, nigro lineatæ, lineis nonnullis denticulatis albido marginatis, fascia media fusca, linea submarginali albida denticulata, plaga submarginali nigra*; *posticæ puncto discali lineisque duabus indistinctis fuscis.*

Female. Cinereous. Palpi obliquely ascending, very short. Wings with black marginal points. Fore wings mostly tinged with fawn-colour, with several black lines, some of which are denticulated and whitish-bordered; a middle brown band, bounded by two denticulated lines and including a third, which is somewhat incrassated; submarginal line whitish, denticulated, traversing a black diffuse patch; costa straight; exterior border slightly convex, rather oblique. Hind wings with a brown discal point and with two exterior indistinct brown lines. Length of the body 4 lines; of the wings 12 lines.

a—e. United States. Presented by E. Doubleday, Esq.

41. LARENTIA ZICZACATA.

Fœm. *Cinerea*; *caput thoracisque tegulæ nigricante punctata*; *palpi nigricantes*; *alæ anticæ puncto basali nigro, fasciis tribus denticulatis fuscescente-cinereis nigro marginatis, litura discali magna atra elongata, costa subconvexa, margine exterioriore perobliquo.*

Female. Cinereous. Head with a blackish mark on the vertex. Palpi mostly blackish, extending very little beyond the head. Tegulæ of the thorax marked with black. Fore wings with a black basal point and with three brownish cinereous bands, which are bounded by denticulated black lines; discal mark deep black, large, elongated, in the second band; costa and exterior border very slightly convex, the latter very oblique. Length of the body 5 lines; of the wings 14 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

42. *LARENTIA PLACIDATA*.

Fœm. *Albida; corpus nigro notatum; palpi nigricantes; alæ punctis marginalibus nigris; anticæ lineis plurimis denticulatis nigricantibus atro et ochraceo ex parte notatis, fascia media glauca, gutta discali atra; posticæ testaceo-cinereæ, puncto discali nigricante.* *Var. β.*—*Alæ anticæ lineis ferrugineis nigro variis, fascia obsoleta.*

Female.—Whitish, testaceous-cinereous beneath. Body with black marks, which form two rows of points on the abdomen. Palpi blackish, extending very little beyond the head. Wings with pairs of rather large black marginal points. Fore wings with many denticulated blackish lines, which are here and there, and especially along the costa, overlaid with deep black, and are partly marked with ochraceous; middle band glaucous, bordered by two of the lines and including a third; discal dot deep black, rather large; costa straight; exterior border slightly convex, rather oblique. Hind wings testaceous-cinereous, with a blackish discal point. *Var. β.*—Fore wings with ferruginous lines, which along the costa and here and there elsewhere are overlaid with black; middle band obsolete. Length of the body 5 lines; of the wings 14—15 lines.

a, b. Orilla, West Canada. From Mr. Bush's collection.

c. Newfoundland. Presented by W. C. St. John, Esq.

43. *LARENTIA? EXNOTATA*.

Fœm. *Cinerea, fusco subconspersa; palpi obtusi, vix ascendentes; alæ anticæ lineis tribus denticulatis maculisque duabus exterioribus ferrugineis indeterminatis; posticæ vix lineatæ, margine exteriori subangulato.*

Female. Cinereous, minutely brown-speckled, allied to *L. exornata*. Palpi obtuse, very slightly ascending, much shorter than the breadth of the head. Fore wings acute, with three ferruginous denticulated rather undefined lines; two ferruginous indeterminate spots beyond the third line, the one subcostal, the other discal and connected with the above line; costa straight. Hind wings with slight traces of two lines; exterior border angular in the middle. Length of the body 5 lines; of the wings 16 lines.

a. Nova Scotia. From Lieut. Redman's collection.

44. LARENTIA? RENUNCIATA.

Fœm. Cinerea, fusco subconspersa; alæ anticæ fuscescente-cinereæ, gutta lineaque basalibus guttisque duabus subapicalibus nigris, fascia media denticulata pallide cinerea nigro marginata, costa convexa, margine exteriori perobliquo; posticæ pallide cinereæ, puncto discali lineaque exteriori flexa fuscis.

Female. Cinereous, minutely speckled with brown. Palpi rostriform, shorter than the breadth of the head. Fore wings acute, brownish cinereous, with a black basal dot, with two black subapical dots, with a black oblique line near the base, and with two black denticulated lines, which include a pale cinereous middle band; costa and exterior border convex, the latter very oblique. Hind wings pale cinereous, with a brown discal point and with a brown bent exterior line. Length of the body 6 lines; of the wings 16 lines.

- a.* St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.
- b.* United States. Presented by E. Doubleday, Esq.
- c.* Orilla, West Canada. From Mr. Bush's collection.

45. LARENTIA? EXORNATA.

Mas. Albido-cinerea; antennæ pubescentes; alæ latiusculæ, punctis ferrugineis marginalibus magnis elongatis; anticæ ferrugineo conspersæ, fasciis tribus ferrugineis macularibus valde incompletis; posticæ gutta discali lineaque exteriori indistincta ferrugineis.

Male. Whitish cinereous. Body with a slight ochraceous tinge. Palpi very short, hardly extending beyond the head. Antennæ pubescent. Wings rather broad, with large elongated ferruginous marginal points. Fore wings ferruginous-speckled, with some ferruginous spots and patches of various size forming three very incomplete bands; costa and exterior very slightly convex, the latter rather oblique. Hind wings indistinctly speckled; under side with a ferruginous discal dot and a very indistinct exterior ferruginous line. Length of the body 5 lines; of the wings 14 lines.

- a, b.* United States. Presented by E. Doubleday, Esq.

South America.

46. LARENTIA CHILIATA.

Pallide cinerea; alæ subdentatæ, concolores, lituris non diversis, rufescente flavo ex parte tinctæ; anticæ lineis plurimis albo punctatis valde undulatis, spatio medio postico fuscescente, puncto discali, punctis submarginalibus nigris.

Fidonia undularia, Blanch. Hist. Chili.

Larentia chiliata, Guen. Phal. ii. 277, 1354.

Chili.

47. LARENTIA TEPIDATA.

Mas. Pallide cinerea; alæ subdentatæ; anticæ elongatæ, spatio medio saturatiore extus flexo, fasciola exterior pallida, lineis duabus basalibus; posticæ angustæ, cinereæ, subtus albæ.

Tephrosia undularia, Blanch. Hist. Chili.

Larentia tepidata, Guen. Phal. ii. 281, 1362.

Chili.

48. LARENTIA TRAJECTATA.

Fœm. Cinerea; thoracis tegulæ nigricantes; alæ anticæ olivaceo subtinctæ, lineis denticulatis nigris, fasciis quatuor nigricantibus subconfluentibus, fascia 3a latissima punctum discalæ nigrum includente, fascia 4a antice marginali postice angustata, linea submarginali angulosa pallide cinerea; posticæ subflavescente-albæ, lineis duabus cinereis guttularibus indistinctis.

Female. Cinereous. Tegulæ of the thorax blackish. Wings with black marginal points. Fore wings slightly tinged with olive-green, mostly occupied by four nearly confluent blackish bands, by which the black denticulated lines are much hidden; third band very broad, including the black discal point, divided by a broad dentate pale cinereous line from the fourth band, which is marginal in front and is much contracted hindward; submarginal line zigzag, pale cinereous. Hind wings white, with a slight yellowish tinge, and with two indistinct guttular cinereous lines. Length of the body 6 lines; of the wings 16 lines.

a. Bogota. From Mr. Stevens' collection.

49. LARENTIA FURCIFERATA.

Fœm. Albida; corpus cervino suffusum; abdomen punctis transversis nigricantibus bilineatum; alæ anticæ lineis plurimis denticulatis diffusis fasciisque duabus cervinis, fascia 1a basali, 2a lata interlineata nigricante marginata lituram discalem transversam nigram includente extus dilatata, plaga apicali cervina postice nigro nebulosa, linea submarginali alba angulosa, punctis marginalibus nigris elongatis; posticæ flavescence-albæ, subtus fusco marginatæ.

Female. Whitish. Body tinged with fawn-colour. Palpi hardly extending beyond the head. Abdomen with two rows of transverse blackish points. Fore wings with many diffuse denticulated fawn-coloured lines, and with two fawn-coloured bands; first band very near the base; second much broader than the first, blackish-bordered, dilated outward in front, including some lines and a narrow transverse black discal mark; a large apical fawn-coloured patch, shaded with black hindward and traversed by the zigzag white submarginal line; marginal points black, elongated; under side yellowish white, with a brown apical patch which does not extend to the tips. Hind wings yellowish white, bordered with brown on the under side. Length of the body 6 lines; of the wings 16 lines.

a. Venezuela. From Mr. Dyson's collection.

Africa.

50. LARENTIA VIRIDICINCTATA.

Fœm. Muscoso-viridis; palpi rostriformes, acuti; alæ anticæ fusco-nigro variæ, spatio medio fusco-nigro lato postice sinuato et dentato, fasciolis interiore et exteriori viridibus rectis fusco interlineatis, fasciola adhuc exteriori maculaque magna sub-apicali fuscis; posticæ dentatæ, viridescente-albæ, cinereo variæ, lineis fasciolaque pallidis subobsoletis.

Larentia viridicinctata, Guen. Phal. ii. 288, 1374.

a. South Africa. Presented by Sir A. Smith.

51. LARENTIA SPATIOSATA.

Mas. *Cinerea*; *antennæ pubescentes*; *alæ anticæ sat angustæ, fusco dense conspersæ, spatio medio latissimo fusco-cinereo marginato extus angulato, fascia basali fusca, puncto discali nigro, margine exteriori perobliquo*; *posticæ subconsersæ, lituris nullis.*

Male. Cinereous. Palpi stout, rostriform, much shorter than the breadth of the head. Antennæ pubescent. Fore wings thickly brown-speckled, acute, rather narrow; middle half of the surface brown, concisely bordered on each side by pale cinereous and very angular on the outer side; a brown band near the base; discal point black; exterior border very oblique. Hind wings minutely brown-speckled, without markings. Length of the body $3\frac{1}{2}$ lines; of the wings 10 lines.

a. South Africa. Presented by Sir A. Smith.

52. LARENTIA EXPLANATA.

Mas. *Cinerea*; *palpi graciles*; *antennæ subpectinatæ*; *alæ subconsersæ, linea marginali nigra lunulata*; *anticæ elongatæ, cinereo-fuscæ, ferrugineo subinctæ, lineis nonnullis fuscis denticulatis, fasciis duabus cinereis, linea submarginali angulosa strigae apicali lata obliqua albidis.*

Male. Cinereous. Palpi slender, extending beyond the head, shorter than half its breadth. Antennæ slightly pectinated. Wings minutely speckled; marginal line black, festooned. Fore wings elongated, acute, cinereous-brown, with several brown more or less distinct denticulated lines; an interior cinereous ferruginous-tinged whitish-bordered slightly undulating band; middle band cinereous, less concise than the first one; marginal space ferruginous-cinereous, including the whitish zigzag submarginal line, and concisely bordered on the inner side by a whitish undulating line; a broad oblique whitish apical streak; discal point black, rather large; exterior border rather oblique. Hind wings with the lines less distinct than those of the fore wings. Length of the body 6 lines; of the wings 16 lines.

Nearly allied to *L. coarctata*, but sufficiently distinct.

a, b. South Africa. Presented by Sir A. Smith.

53. LARENTIA COARCTATA.

Mas. *Cinerea; antennæ pectinatæ; alæ quadrifasciatæ, fusco subconsersæ, lineis nonnullis fuscis denticulatis, puncto discali fusco elongato; anticæ acutæ, margine exteriori sat obliquo.*

Male. Cinereous. Palpi extending beyond the head, but much shorter than its breadth. Antennæ moderately pectinated. Wings thinly and minutely brown-speckled, with several denticulated brown lines, some of which are much more strongly marked than the others, and form four interlined bands; third band very prominent in the middle of the outer side; discal point brown, elongated. Fore wings acute; exterior border rather oblique. Hind wings rather paler than the fore wings, with less distinct markings. Length of the body $4\frac{1}{2}$ lines; of the wings 12 lines.

a. South Africa. Presented by Sir A. Smith.

54. LARENTIA PEREMPTATA.

Fœm. *Cinerea; alæ bifasciatæ, nigricante consersæ, lineis nonnullis diffusis denticulatis lineaque marginali nigricantibus; anticæ costa subconvexa.*

Female. Cinereous. Palpi extending a little beyond the head. Wings blackish-speckled, and with a blackish marginal line. Fore wings hardly acute, with several diffuse denticulated blackish lines; some of these lines are less diffuse than others, and the spaces between them are less speckled, and thus two pale cinereous interlined bands are formed; costa and exterior border slightly convex. Hind wings with the lines as distinct as those of the fore wings. Length of the body 3 lines; of the wings 9 lines.

a. Sierra Leone. Presented by the Rev. D. F. Morgan.

55. LARENTIA? ARCUATA.

Mas. *Obscure cervina; alæ punctis marginalibus nigris; anticæ obtusæ, nigricante subconsersæ, fasciis tribus nigricantibus denticulatis e lineis duplicatis diffusis, linea submarginali albida denticulata; posticæ albido-cinereæ, fascia submarginali fusca.*

Male. Dull fawn-colour. Palpi extending a little beyond the head. Wings with minute black marginal points. Fore wings somewhat obtuse at the tips, minutely blackish-speckled, with three irregular denticulated blackish bands, each of which is composed of two diffuse lines; submarginal line whitish, denticulated; costa and exterior border slightly convex. Hind wings whitish cinereous, with a brown submarginal band. Length of the body 5 lines; of the wings 12 lines.

a. Cape. Presented by Sir A. Smith.

56. LARENTIA DISTINCTATA.

Fœm. *Ferrugineo-cinerea; alæ anticæ lineis nonnullis denticulatis nigris, octo magis determinatis, linea submarginali denticulata pallide cinerea, costa recta, margine exteriori sat obliquo; posticæ cinereæ, margine exteriori subferrugineo.*

Female. Ferruginous-cinereous. Palpi extending beyond the head, but much shorter than its breadth. Fore wings with some black denticulated lines, eight of which are partly shaded with black and are more conspicuous than the others, and form four pairs, each of which contains a diffuse black line and has the appearance of a band; submarginal line pale cinereous, denticulated; costa straight; exterior border slightly convex, rather oblique. Hind wings cinereous, with a ferruginous tinge along the exterior border. Length of the body 4 lines; of the wings 12 lines.

a. South Africa. Presented by Sir A. Smith.

57. LARENTIA ATTENUATA.

Fœm. *Cinerea; alæ anticæ fusco subconspersæ, fasciis quatuor denticulatis bilineatis, 4a informi interrupta, puncto discali nigro; posticæ vix fasciatæ.*

Female. Cinereous. Palpi rostriform, much shorter than the breadth of the head. Fore wings thinly and minutely brown-speckled, with four bands, each band composed of two parallel denticulated and bent lines, the fourth irregular and interrupted; discal point black, minute. Hind wings with indistinct traces of the four bands. Length of the body 4 lines; of the wings 12 lines.

Cape. In Mr. Saunders' collection.

58. LARENTIA? SUBLECTATA.

Mas. *Ferruginea; palpi decumbentes; antennæ pubescentes; alæ latiusculæ, punctis marginalibus nigris; anticæ nigro conspersæ vix nebulosæ, lineis duabus nigris, 1a obliqua, 2a valde angulata, linea submarginali albida angulosa, costa convexa; posticæ albido-cinereæ, linea submarginali fusca diffusa.*

Male. Ferruginous. Palpi slightly decumbent, much shorter than the breadth of the head. Antennæ pubescent. Wings rather broad, with black marginal points. Fore wings acute, black-speckled, very slightly clouded with black, with two black lines; interior line oblique; exterior line deeply and acutely angular; submarginal line whitish, very zigzag; costa convex; exterior border rather oblique. Hind wings whitish cinereous, with a diffuse brown submarginal line. Length of the body 6 lines; of the wings 16 lines.

a. South Africa. Presented by Sir A. Smith.

Asia.

59. LARENTIA SATURATA.

L. *didymatæ affinis; alæ anticæ obscuriores, plus productæ, lineis tenuioribus magis concisis, margine exteriori rectiore, spatio medio lato lineis duabus albis marginato, lineolis duabus exterioribus saturatis, maculis duabus exterioribus fuscis, linea submarginali alba dentata tenuissima; posticæ cinereæ, lineolatae.*

Larentia saturata, Guen. *Phal.* ii. 269, 1339.

Pondicherry.

60. LARENTIA? INDICARIA.

Mas. *Flavescens; palpi producti, pilosissimi; antennæ longiusculæ, valde pectinatae; alæ fimbria nigro punctata; anticæ lineis tribus albis ex parte nigro nebulosis, linea submarginali alba nigro punctata; posticæ pallide cinereæ, fusco conspersæ, lineis duabus indistinctis fuscis.*

Eubolia indicaria, Guer. *Voy. Delessert*, 97, pl. 26, f. 4.

Larentia indicaria, Guen. *Phal.* ii. 269, 1340.

Nilgherry Mountains.

61. LARENTIA FISSIFERATA.

Mas. *Fuscescente-cinerea*; antennæ pectinatæ; alæ linea marginali nigricante; anticæ elongatæ, lineis nonnullis denticulatis indistinctis fascisque tribus fuscis, fascia 3a extus undulata et cinereo marginata, linea submarginali denticulata strigaque apicali obliqua pallide cinereis, margine exteriori perobliquo; posticæ albido-cinereæ.

Male. Brownish cinereous. Palpi extending a little beyond the head. Antennæ moderately pectinated. Wings with a blackish marginal line. Fore wings elongated, with some indistinct denticulated brown lines and with three brown bands; first and second bands interior; third exterior, undulating and concisely bordered with pale cinereous on its outer side; submarginal line pale cinereous, denticulated; a pale cinereous slightly curved oblique apical streak crossing the submarginal line; exterior border very oblique. Hind wings whitish cinereous. Length of the body 5 lines; of the wings 14 lines.

a. South Hindostan. Presented by M. J. Walhouse, Esq.

62. LARENTIA INTERMIXTA.

Mas. *Cinerea*; antennæ pectinatæ; abdomen linea basali transversa nigra; alæ anticæ elongatæ, fusco nebulosæ et conspersæ, fascia exteriori pallide cinerea interlineata subdentata subundulata, linea interiori nigricante undulata non obliqua, linea submarginali pallide cinerea subangulosa, litura discali nigra transversa elongata, margine exteriori perobliquo; posticæ albido-cinereæ, linea marginali fusca.

Male. Cinereous. Palpi stout, extending very little beyond the head. Antennæ moderately pectinated. Thorax and fore wings mostly shaded or speckled with brown. Abdomen with a transverse black line at the base. Fore wings elongated; the brown shade bounded concisely on the outer side by a narrow interlined slightly dentate and undulating pale cinereous band; discal mark black, transverse, large, elongated, having near its inner side an undulating but not oblique blackish line; submarginal line pale cinereous, slightly zigzag; exterior border hardly convex, very oblique. Hind wings whitish cinereous, more cinereous along the exterior border; marginal line brown. Length of the body $5\frac{1}{2}$ lines; of the wings 16 lines.

a. South Hindostan. Presented by M. J. Walhouse, Esq.

63. LARENTIA EXLITURATA.

Fœm. *Obscure cinerea; alæ linea submarginali albida denticulata, punctis marginalibus nigris elongatis; anticæ lineis denticulatis nigricantibus, fascia media fusca antice dilatata punctum discalæ elongatum includente, plaga subapicali fusca nigro notata, striga apicali obliqua pallide cinerea; posticæ lineis tribus indistinctis fuscis.*

Female. Dull cinereous. Palpi extending beyond the head, but little longer than half its breadth. Wings with a whitish denticulated submarginal line; discal points black, elongated. Fore wings with some blackish denticulated lines near the base and in a brown middle band, which is concisely bordered and is widest in front and contains an elongated black discal point; a brown subapical patch, marked with black, obliquely divided by a pale cinereous apical streak; costa and exterior border almost straight, the latter rather oblique. Hind wings with three indistinct brown lines, which are a continuation of those on the band of the fore wings. Length of the body 4 lines; of the wings 12 lines.

a. South Hindostan. Presented by M. J. Walhouse, Esq.

Australia.

64. LARENTIA? EXTENSATA.

Mas. *Cinerea; caput antice nigricans; antennæ pectinatæ; alæ elongatæ, subconspersæ, lineis nonnullis fuscis denticulatis subdiffusis, linea submarginali albida denticulata, gutta discali fusca, lunulis marginalibus nigris; anticæ apice rotundatæ, margine exteriori perobliquo.*

Male. Cinereous. Head blackish in front. Palpi hardly extending beyond the head. Antennæ moderately pectinated. Hind borders of the abdominal segments pale cinereous. Wings elongated, minutely speckled, with several denticulated slightly diffuse brown lines, most of which slightly indicate two bands; submarginal line whitish, denticulated; marginal lunules black; discal dot brown. Fore wings somewhat rounded at the tips; exterior border very oblique. Hind wings with the markings almost as distinct as in the fore wings. Length of the body 5 lines; of the wings 16 lines.

a. Tasmania. Presented by E. Doubleday, Esq.

65. *LARENTIA IMPERVIATA*.

Fœm. *Cinerea*; *alæ* *linea marginali nigra lunulata*; *anticæ* *acutæ, nigricante conspersæ, lineis nonnullis nigricantibus denticulatis, fasciis duabus pallide cinereis conspersis interlineatis, 1a basali, 2a exteriori valde undulata, puncto discali nigro interlineato*; *posticæ* *lineis valde indistinctis*.

Female. Cinereous. Palpi extending a little beyond the head. Wings with a black festooned marginal line. Fore wings acute, blackish-speckled, with several blackish denticulated lines and with two pale cinereous-speckled and interlined bands; first band near the base, hardly undulating; second exterior, very undulating; discal point black, elongated. Hind wings with very indistinct lines. Length of the body $4\frac{1}{2}$ lines; of the wings 13 lines.

a. Adelaide. Presented by the Entomological Club.

66. *LARENTIA LATICOSTATA*.

Mas et fœm. *Schistaceo-cinerea*; *antennæ maris simplices*; *alæ breviusculæ, latiusculæ, linea marginali nigricante*; *anticæ lineis nonnullis nigricantibus denticulatis subdiffusis, spatiis basali et marginali pallidioribus, costa maris basi dilatata et fasciculata*; *posticæ cinereæ, lineis indistinctis, plaga antica schistacea*.

Male and female. Slaty cinereous. Palpi short, rostriform, extending a little beyond the head. Antennæ simple. Wings rather short and broad; marginal line blackish. Fore wings with several blackish denticulated slightly diffuse lines; basal space and marginal space paler than the middle part; a slight tinge of fawn-colour, which is occasionally obsolete; tips somewhat rounded; costa dilated and tufted towards the base in the male. Hind wings cinereous, with indistinct lines; a large slaty cinereous patch in front. Length of the body 3 lines; of the wings 8 lines.

a—d. Sydney. From Mr. Lambert's collection.

67. *LARENTIA? INTENEBRATA*.

Fœm. *Obscure fusca*; *palpi subtus basi pallide cinerei*; *alæ lineis plurimis nigricantibus subundulatis subdentatis, linea submarginali denticulata pallide cinerea, linea marginali nigra lunulata*; *anticæ fascia exteriori cinerea undulata interlineata, puncto discali nigro elongato*.

Female. Dark brown. Palpi pale cinereous at the base beneath, extending beyond the head, but much shorter than its breadth; third joint elongate-conical. Wings with numerous blackish slightly undulating and dentate lines, some of which are in pairs and form indistinct bands; submarginal line pale cinereous, denticulated; marginal line black, festooned. Fore wings with an exterior undulating interlined cinereous band; discal point black, much elongated; costa straight; exterior border slightly convex, rather oblique. Length of the body 5 lines; of the wings 16 lines.

a. Australia.

New Zealand.

68. LARENTIA CLARATA.

Fœm. *Flavescente-cinerea; alæ anticæ acutæ, fasciis quinque subundulatis pallide cervinis fusco marginatis, 1a 2aque basalibus, 3a 4aque connexis, spatio marginali pallide cervino, puncto discali punctisque marginalibus nigricantibus; posticæ pallide ochraceæ.*

Female. Yellowish cinereous. Palpi extending very little beyond the head. Fore wings acute, with five slightly undulating pale fawn-coloured brown-bordered bands; first and second bands very near the base; third connected in the middle with the fourth; fourth interlined with brown, deeply excavated on the outer side; fifth interlined; marginal space pale fawn-colour; discal point blackish, elongated, between the third and fourth bands; margin a points blackish; costa and exterior border hardly convex. Hind wings pale ochraceous. Length of the body 4 lines; of the wings 12 lines.

a. New Zealand. From Mr. Earl's collection.

69. LARENTIA PRODUCTATA.

Fœm. *Cinerea; thorax fusco conspersus; alæ anticæ acutæ, fusco nebulosæ, nigro conspersæ, linea interiore fasciæque exteriori albis indeterminatis, linea submarginali alba angulosa, punctis marginalibus nigris elongatis; posticæ pallide luteæ, fusco conspersæ.*

Female. Cinereous. Palpi extending a little beyond the head. Thorax speckled with brown. Fore wings acute, mostly shaded with brown and speckled with black; an interior white line and an

exterior white band, both irregular and speckled; submarginal line white, very zigzag; marginal points black, elongated; under side pale luteous, slightly blackish shaded. Hind wings pale luteous, brown-speckled. Length of the body 6 lines; of the wings 18 lines.

a. Auckland, New Zealand. From Mr. Oxley's collection.

70. LARENTIA MEGASPILATA.

Mas. *Cinereo-fusca; palpi validi, rostriformes; caput longe superantes; antennæ pectinatæ; alæ anticæ subfalcatæ, lineis plurimis nigricantibus denticulatis indistinctis, lineis duabus albidis nigro punctatis, plaga subcostali pallide cinerea nigricante marginata punctum nigrum includente, striga apicali nigra obliqua flexa diffusa, linea submarginali cinerea angulosa, punctis marginalibus nigris elongatis; posticæ subochraceæ, lineis indistinctis fuscis.*

Male. Cinereous-brown. Palpi stout, pilose, rostriform, extending much beyond the head, and about as long as its breadth. Antennæ moderately pectinated. Fore wings with numerous indistinct blackish denticulated lines; interior and exterior lines whitish, accompanied by black points, having between them a large pale cinereous subcostal blackish-bordered patch, which contains a black point; a black oblique bent diffuse apical streak, which passes across the cinereous zigzag submarginal line; marginal points black, elongated; tips subfalcate, the exterior border being excavated in front. Hind wings dull ochraceous, with indistinct brown lines. Length of the body $4\frac{1}{2}$ lines; of the wings 13 lines.

a. Auckland, New Zealand. From Mr. Oxley's collection.

71. LARENTIA SUBDUCTATA.

Fœm. *Obscure olivacea; alæ anticæ lineis nonnullis denticulatis nigris, fasciis duabus e lineis nigro conspersis, 1a basali, 2a lata extus dilatata et angulata punctum discale transversum includente, linea submarginali angulosa cinerea, margine exteriore sat obliquo; posticæ cinereæ, lineis nullis.*

Female. Dull olive-green. Palpi extending a little beyond the head. Thorax with a few black speckles. Fore wings with several denticulated black lines, some of which are shaded by black speckles and form two bands; first band near the base, less than

half the breadth of the second, which is in the middle, and is dilated and angular on the outer side, and contains a small transverse black discal mark; marginal space speckled with black, containing the cinereous zigzag submarginal line; marginal points black, minute; costa and exterior border straight, the latter rather oblique. Hind wings cinereous, without lines. Length of the body 3 lines; of the wings 10 lines.

a. Auckland, New Zealand. From Mr. Oxley's collection.

72. LARENTIA INFUSATA.

Fœm. *Cinereo-fusca; alæ anticæ acutæ, lineis nonnullis cinereis denticulatis, linea submarginali cinerea angulosa, costa subconvexa, margine exteriori antico subexcavato; posticæ cinereæ, lineis nullis.*

Female. Cinereous-brown. Palpi short. Fore wings acute, with several cinereous denticulated lines, which are most distinguishable on the veins; submarginal line cinereous, zigzag; costa slightly convex; exterior border slightly excavated in front. Hind wings cinereous, without lines. Length of the body 3 lines; of the wings 9 lines.

a. New Zealand. Presented by Dr. Sinclair.

73. LARENTIA INVEXATA.

Mas et fœm. *Cinerea; palpi rostriformes, non longi; antennæ maris pectinatæ; alæ anticæ fusco subconspersæ, lineis plurimis denticulatis nigricantibus, lineis tribus nigris nigricante ex parte nebulosis, plaga discali nigricante, linea submarginali angulosa pallide cinerea, costa subconvexa, margine exteriori sat obliquo; posticæ lineis valde indistinctis.*

Male and female. Cinereous. Palpi porrect, rostriform, shorter than the breadth of the head. Antennæ of the male moderately pectinated. Fore wings minutely brown-speckled, with many blackish denticulated lines, of which the basal, interior and exterior lines are black and more distinct than the others, and are partly shaded with blackish, which hue forms a discal patch; submarginal line pale cinereous, zigzag; marginal points brown, minute; costa slightly convex; exterior border straight, rather oblique. Hind wings with very indistinct lines. Length of the body 3—3½ lines; of the wings 9 lines.

a, b. New Zealand. Presented by Col. Bolton.

74. LARENTIA SEMISIGNATA.

Fœm. Cinerea, nigro subconspersa; alæ anticæ lineis plurimis denticulatis nigricantibus, spatio medio non lineato punctum discalæ nigrum elongatum includente, lineis tribus e punctis apud venas albidis, lunulis marginalibus nigris, costa convexa; posticæ pallidiores, lineis indistinctis.

Female. Cinereous, minutely black-speckled. Head wanting. Fore wings with several denticulated blackish lines, some of which are most conspicuous on the veins, where they form black points; middle space without lines, containing the black transverse elongated discal point; interior, exterior and submarginal lines formed by whitish points on the veins; marginal lunules black; costa convex; exterior border hardly convex. Hind wings paler, with indistinct lines. Length of the body 4 lines; of the wings 12 lines.

a. New Zealand. Presented by Dr. Sinclair.

75. LARENTIA LUCIDATA.

Fœm. Cinereo-fusca; palpi caput sat superantes; alæ lunulis marginalibus nigris; anticæ lineis plurimis fuscis subrectis subdenticulatis, fasciis duabus e lineis nonnullis nigricantibus, 2a antice flavescente, linea submarginali albida denticulata; posticæ pallidiores, lineis indistinctis.

Female. Cinereous-brown. Palpi extending somewhat beyond the head. Wings with black marginal lunules. Fore wings with many oblique, nearly straight but slightly denticulated brown lines, some of which are mostly blackish and form two bands; second band with a yellowish tinge on most of its fore half; submarginal line whitish, denticulated; costa and exterior border almost straight. Hind wings paler, with indistinct lines. Length of the body $3\frac{1}{2}$ lines; of the wings 11 lines.

a. New Zealand. Presented by Dr. Sinclair.

76. LARENTIA? QUADRISTRIGATA.

Fœm. Cinerea; palpi obtusi, caput longe superantes; alæ lunulis marginalibus nigricantibus; anticæ lineis nonnullis fuscis denticulatis, fasciis duabus albidis nigricante marginatis et interlineatis, 1a dentata, 2a denticulata, linea submarginali albida angulosa, costa convexa; posticæ fascia 2a lineaque submarginali indistinctis.

Female. Cinereous. Palpi porrect, obtuse, extending much beyond the head, and as long as its breadth. Wings with blackish marginal lunules. Fore wings slightly rounded at the tips, with several brown denticulated lines, and with two whitish bands, each of which is bordered and interlined by three blackish lines; first band dentate; second denticulate; submarginal line whitish, zigzag; costa and exterior border convex. Hind wings with the second band and the submarginal line indistinctly marked. Length of the body $3\frac{1}{2}$ lines; of the wings 10 lines.

This species has some affinity to *Lobophora*, and may form a new genus.

a. New Zealand. Presented by Col. Bolton.

77. LARENTIA INOPERATA.

Mas. *Cinerea, parva; antennæ subpectinatae; alæ anticæ subfalcatae, vix viridescente tinctæ, lineis plurimis fuscis denticulatis, nonnullis nigro submarginatis, linea submarginali angulosa pallide cinerea, puncto discali nigro, margine exteriore antico subinciso; posticæ pallidiores, lineis indistinctis.*

Male. Cinereous, small. Palpi extending a little beyond the head. Antennæ slightly pectinated. Fore wings with a hardly perceptible greenish tinge, and with numerous denticulated brown lines, several of which are broadly but incompletely bordered with black, and form four bands; submarginal line pale cinereous, zigzag; discal point black; tips subfalcate, the exterior border being slightly notched in front. Hind wings paler, with indistinct lines. Length of the body 3 lines; of the wings 9 lines.

a—c. New Zealand. Presented by Dr. Sinclair.

d. New Zealand. Presented by Col. Bolton.

78. LARENTIA DIFFUSARIA.

Fœm. *Obscure cinerea, sat valida; palpi pilosi, caput superantes; alæ anticæ fasciis quatuor dentatis diffusis nigris cinereo plus minusve marginatis, 1a 2a que incompletis, 3a 4a que parallelis, linea submarginali angulosa pallide cinerea; posticæ lituris nullis.*

Female. Dark cinereous, somewhat stout. Palpi rather stout and pilose, extending somewhat beyond the head. Fore wings with four black dentate somewhat diffuse bands, which are more or less

bordered with pale cinereous; first and second bands incomplete, between the base and the exterior band; exterior band parallel to the interior one; submarginal line zigzag, pale cinereous. Hind wings without markings. Length of the body 3 lines; of the wings 9 lines.

a. New Zealand. Presented by Col Bolton.

79. LARENTIA PUNCTILINEATA.

Mas et fœm. *Cinereo-fusca; antennæ maris pectinatæ; alæ anticæ lineis denticulatis cinereis et nigricantibus, venis albo punctatis, litura discali transversa elongata nigra cinereo marginata; posticæ pallidiores, lineis indistinctis.*

Male and female. Cinereous-brown. Antennæ of the male pectinated. Fore wings with several alternate cinereous and blackish denticulated lines; veins with white points, which form four lines, the fourth submarginal; discal mark transverse, elongated, black, cinereous-bordered; discal point and marginal lunules black. Hind wings paler, with some indistinct cinereous denticulated lines. Length of the body 3—4 lines; of the wings 10—12 lines.

a. New Zealand. Presented by Major Parry.

b. New Zealand. Presented by Dr. Sinclair.

c—e. New Zealand. Presented by Col. Bolton.

80. LARENTIA INTERCLUSA.

Fœm. *Cinerea; alæ anticæ lineis nonnullis nigricantibus subdentatis subundulatis, fasciis interiore et exteriori nigro trilineatis, fascia basali nigricante postice abbreviata, litura discali diffusa, linea submarginali albida dentata, lunulis marginalibus nigris; posticæ fascia exteriori.*

Female. Cinereous. Palpi short. Legs slender. Fore wings with several black or blackish slightly undulating and dentate lines; interior and exterior bands, each formed by three of these lines, which are parallel and approximate to each other and are more distinct than the other lines; a blackish band along the inner side of the interior band, much abbreviated hindward; discal mark rather diffuse; submarginal line whitish, dentate; marginal lunules black; tips rectangular. Hind wings without markings, except the exte-

rior band, which is indistinct. Length of the body 3 lines; of the wings 10 lines.

a. New Zealand. From Mr. Churton's collection.

Isle of Pines.

81. LARENTIA FINITIMA.

Fœm. *Subtestaceo-albida; alæ punctis marginalibus nigricantibus; anticæ acutæ, lineis nonnullis fuscis diffusis denticulatis, fascia media lata interlineata pallide cervina extus dentata, puncto discali nigricante; posticæ lineis valde indistinctis.*
 Var. β .—*Alæ anticæ fascia media divisa.*

Female. Whitish, with a slight testaceous tinge. Palpi rather slender, extending beyond the head, but much shorter than its breadth. Wings with minute blackish marginal points. Fore wings acute, with several brown diffuse denticulated lines, and with a broad pale fawn-coloured interlined middle band, whose outer side is dentate; discal point blackish, minute. Hind wings with very indistinct lines. Var. β .—Middle band divided and forming two narrow bands. Length of the body 4 lines; of the wings 12 lines.

a—d. Isle of Pines. Presented by the Admiralty.

Country unknown.

82. LARENTIA DULCIFERATA.

Fœm. *Viridescente-ochracea; palpi subflexi; alæ anticæ elongatæ, acutæ, lineis plurimis nigricantibus denticulatis diffusis, costa fimbriaque nigro notatis, margine exteriori perobliquo, fascia submarginali subtus rufescente; posticæ margine latissimo rufescente.*

Female. Greenish ochraceous. Palpi slightly bent, much shorter than the breadth of the head; third joint conical, minute. Fore wings acute, somewhat elongated, with many blackish diffuse denticulated lines, which are interrupted towards the costa, where they terminate in large black points; fringe with large black points; exterior border slightly convex, very oblique; under side with pale tips and with a reddish submarginal band, which contains a blackish subcostal spot. Hind wings with a very broad reddish border. Length of the body 6 lines; of the wings 18 lines.

a. ———?

Genus 4. EMMELESIA.

Corpus gracile. Frons unicolor. Palpi porrecti, squamosi, breves, disjuncti, frontem vix superantes; articuli indistincti. Antennæ breves, filiformes, maris vix pubescentes. Abdomen maris subconicum, fasciculo apicali parvo plus minusve erecto. Pedes graciles; tibiæ posticæ calcaribus quatuor sat longis. Alæ integræ, sat tenues; anticæ lineis undulatis, fascia exteriori, linea submarginali angusta dentata.

Acidalia, p., et Cidaria, p., *Treit.*

Trichopteryx, Perizoma, Calostigia, *Hubn. Verz. Schm.* 323, 327, 328.

Melanthia, p., *Boisd.*

Melanippe, p., *Dup.*; *Boisd.*

Emmelesia, *Steph. Ill. Brit. Haust.* iii. 296. *Guen. Phal.* ii. 289.

Larentia, p., *Herr.-Sch.*

Cleogene, p., *Steph.*

Body slender. Front of one colour. Palpi squamous, short, apart from each other, hardly extending beyond the front; joints indistinct. Antennæ short, filiform, hardly pubescent in the male. Abdomen without dorsal points; that of the male slender, subconical, and with a small more or less erect apical tuft. Legs slender; hind tibiæ with four moderately long spurs. Wings entire, rather delicate. Fore wings with undulating lines; a distinct band beyond the exterior line; submarginal line slender, dentate.

1. EMMELESIA AFFINITATA.

Cinereo-fusca; alæ punctis marginalibus nigris; anticæ lineis denticulatis fuscis albo submarginatis, fascia exteriori alba subundulata; posticæ cinereæ, fascia indistincta pallidior.

———, *Lyon. Ins.* 271, pl. 27, f. 7—12.

Geometra rivulata? *Haw. Lep. Brit.* 335, 59.

Emmelesia affinitata, *Steph. Ill. Brit. Haust.* iii. 297, 2. *Guen. Phal.* ii. 290, 1375.

Emmelesia turbata, *Steph. Ill. Brit. Haust.* iii. 298, 3.

Larentia affinitaria, *Herr.-Sch. Eur. Schm.* iii. 157, 133, pl. 45, f. 271, 272; pl. 52, f. 319, 320. *Delah. Schm.* 269.

a—m. England. From Mr. Stephens' collection.

n—p. England.

2. EMMELESIA ALCHEMILLATA.

Ferrugineo-cinerea; alæ anticæ lineis nigricantibus denticulatis diffusis subobsoletis, fasciis exteriori et submarginali albis dentatis, 1a interlineata, 2a valde interrupta; posticæ sordide cinereæ, vix lineatæ.

———, *De Vill. Ent. Linn.* iv. 512.

Phalæna-Geometra alchemillata, *Linn. Faun. Suec.* 1282. *Gmel. ed. Syst. Nat.* i. 5, 2477, 253.

Phalæna alchemillata, *Fabr. Sp. Ins.* ii. 264, 128; *Mant. Ins.* ii. 208, 192; *Ent. Syst.* iii. 2, 194, 236.

Geometra alchemillata, *Bork. Eur. Schm.* v. 185.

Geometra rivulata, *Wien. Verz.* 109, 13. *Ill. N. Ausg. dess.* i. 437, 13. *Gotze, Ent. Beitr.* iii. 3, 398, 165. *Hubn. Geom.* pl. 50, f. 259.

Phalæna nassata, *Fabr. Ent. Syst.* iii. 2, 204, 278.

Geometra nassata, *Haw. Lep. Brit.* 335.

Acidalia rivulata, *Treit. Schm.* vi. 2, 42, 27.

Calostigia alchemillata, *Hubn. Verz. Schm.* 328, 3175.

Melanippe rivularia, *Dup. Lep.* v. 289, pl. 190, f. 6. *Boisd. Ind.* 216, 1785.

Emmelesia rivulata, *Steph. Ill. Brit. Haust.* iii. 298, 4.

Larentia rivularia, *Herr.-Sch. Eur. Schm.* iii. 157, 132.

Emmelesia alchemillata, *Guen. Phal.* ii. 290, 1376.

a—k. England. From Mr. Stephens' collection.

l—o. England. From Mr. King's collection.

p—v. England.

u, w. Europe. From M. Becker's collection.

3. EMMELESIA HYDRATA.

Pallide aut nigricante-cinerea; alæ punctis marginalibus nigris; anticæ fasciis duabus denticulatis cinereis plus minusve conspicuis, linea submarginali alba; posticæ lineis duabus parallelis cinereis nonnunquam subobsoletis.

Acidalia hydrata, *Treit. Schm.* vii. 217. *Frey. Beitr.* pl. 54, f. 1.

Melanippe hydraria, *Boisd. Ind.* 216, 1786.

Larentia hydraria, *Herr.-Sch. Eur. Schm.* iii. 157, 131, pl. 65, f. 400. *Delah. Schm.* 267.

Emmelesia hydrata, *Guen. Phal.* ii. 291, 1377.

France. Germany. Bohemia.

4. EMMELESIA ALBULATA.

Alba; alæ lineis diffusis dentatis pallide cinereo-fuscescentibus, spatio marginali subfuscescente lineam submarginalem albam denticulatam includente; anticæ punctis nonnullis nigro-fuscis.

———, *De Vill. Ent. Linn.* iv. 512.

Geometra albulata, *Wien. Verz.* 109, 12. *Bork. Eur. Schm.* v. 312, 144. *Ill. N. Ausg. dess.* i. 437, 12. *Gotze, Ent. Beitr.* iii. 3, 398, 164. *Hubn. Geom.* pl. 50, f. 257.

Phalæna albulata, *Fabr. Ent. Syst.* iii. 2, 204, 277.

Acidalia albulata, *Treit. Schm.* vi. 2, 13, 8. *Dup. Lep.* v. 432, pl. 201, f. 2. *Boisd. Ind.* 224, 1883.

Perizoma albulata, *Hubn. Verz. Schm.* 327, 3164.

Larentia albularia, *Herr.-Sch. Eur. Schm.* iii. 157, 129. *Delah. Schm.* 265.

Acidalia ablutata, *Eversm. Faun. Volg.-Ural.* 398.

Cleogene niveata, *Steph. Ill. Brit. Haust.* iii. 291, 2.

Emmelesia albulata, *Guen. Phal.* ii. 292, 1378.

a—j. England. From Mr. Stephens' collection.

k. Scotland. From Mr. Foxcroft's collection.

l—p. England.

q, r. Europe. From M. Becker's collection.

5. EMMELESIA DECOLORATA.

Albida; alæ anticæ fasciis tribus lineas saturatiores includentibus pallide lutescente-cervinis, 2a 3aque disco connexis, 3a marginali lineam albidam angulosam includente; posticæ lutescente-cervino submarginatæ.

Geometra decolorata, *Hubn. Geom.* pl. 47, f. 245. *Haw. Lep. Brit.* 328.

Acidalia decolorata, *Treit. Schm.* vi. 2, 13, 7. *Dup. Lep.* v. 430, pl. 201, f. 3. *Boisd. Ind.* 224, 1882.

Trichopteryx decolorata, *Hubn. Verz. Schm.* 323, 3115.

Geometra flavofasciata? *Thunb. Bork. Eur. Schm.* v. 199.

Larentia decolorata, *Herr.-Sch. Eur. Schm.* iii. 157, 130. *Delah. Schm.* 266.

Emmelesia decolorata, *Guen. Phal.* ii. 292, 1379.

a—j. England. From Mr. Stephens' collection.

k. England. From Mr. Stevens' collection.

l—n. England.

o. Europe. From M. Becker's collection.

6. EMMELESIA TÆNIATA.

Cervina; thorax abdominisque segmenta nigro fasciata; alæ punctis marginalibus nigris; anticæ fasciis duabus olivaceo-cinereis albido marginatis, 1a basali, 2a media, linea submarginali albida punctulari, litura discali nigra; posticæ cinereæ, fascia pallidiore.

Emmelesia tæniata, Steph. Ill. Brit. Haust. iii. 299, 9, pl. 32, f. 3.
Guen. Phal. ii. 293, 1380.

Larentia aretaria, Herr.-Sch. Eur. Schm. iii. 149, 102, pl. 68, f. 416.

a—f. England. From Mr. Stephens' collection.

g, h. Scotland. From Mr. Stevens' collection.

i, j. Ireland. From Mr. Bouchard's collection.

7. EMMELESIA UNIFASCIATA.

Fuscescens; alæ anticæ linea basali fasciisque tribus interlineatis albidis, 3a flexa, linea submarginali alba denticulata, punctis marginalibus guttisque duabus apicalibus nigris; posticæ cinereæ.

Geometra unifasciata, Haw. Lep. Brit. 335, 57.

Geometra bifasciata, Haw. Lep. Brit. 334.

Emmelesia unifasciata, Steph. Ill. Brit. Haust. iii. 300, 10. Guen. Phal. ii. 1381.

Emmelesia bifasciata, Steph. Ill. Brit. Haust. iii. 300, 11.

Melanthia scitularia, Ramb. Ann. Soc. Ent. Fr. 1832, 42, pl. 2, f. 8.
Boisd. Ind. 217, 1798.

Larentia aquilaria, Herr.-Sch. Eur. Schm. iii. 163, 151, pl. 55, f. 336.

a, b. England. From Mr. Stephens' collection.

c. England.

8. EMMELESIA LINULATA.

Fœm. *Fuscescente aut rufescente-cinerea*; alæ anticæ spatio medio nigro-cinereo albo marginato, linea exteriori biangulata valde sinuata, fasciola adhuc exteriori pallida rufescente-fusco tincta, spatio marginali cinereo fuscoque, linea submarginali tenui, puncto subapicali nigro.

Emmelesia linulata, Guen. Phal. ii. 294, 1382.

Pyrenees.

9. EMMELESIA MINORATA.

Cinerea; alæ anticæ fasciis duabus obscurioribus, 1a albido marginata, 2a marginali lineam albidam angulosam includente, punctis marginalibus fuscis, puncto discali nigro.

Cidaria minorata, Treit. Schm. vi. 2, 143, 2.

Acidalia minorata, Dup. Lep. Sup. iv. 110, pl. 59, f. 8.

Melanthia jucundaria? Boisd. Ind. 217, 1797.

Larentia minorata, Herr.-Sch. Eur. Schm. iii. 153, 115, pl. 20, f. 118.

Delah. Schm. 252.

Emmelesia minorata, Guen. Phal. ii. 295, 1383.

Swiss and Styrian Alps.

10. EMMELESIA ERICETATA.

Cinerea; alæ fimbria interlineata, anticæ fasciis quatuor nigro-cinereis, 1a basali, 4a marginali lineam submarginalem albam denticulatam includente, puncto discali nigro sat magno; posticæ lineis denticulatis pallidis indistinctis.

Emmelesia ericetata, Dale, MSS. Steph. Ill. Brit. Haust. iii. 298, 5.

Guen. Phal. ii. 295, 1384.

a—j. England. From Mr. Stephens' collection.

k. England.

l—n. Scotland. From Mr. Foxcroft's collection.

11. EMMELESIA BLANDIATA.

Albida; abdomen punctis dorsalibus nigris; alæ basi flavescente tinctæ, spatio marginali cinereo lineam albam denticulatam includente; anticæ fascia media fusca nigro submarginata antice guttam discalem obliquam nigram includente postice vacua, linea basali punctulari punctisque marginalibus nigris.

Geometra blandiata, Wien. Verz. 316, 15. Ill. N. Ausg. dess. i. 464, 2, 3. Gotze, Ent. Beitr. iii. 3, 404, 223. Hubn. Geom. pl. 50, f. 258.

Geometra adæquata, Bork. Eur. Schm. v. 218.

Acidalia blandiata, Treit. Schm. vi. 2, 43, 28. Dup. Lep. v. 263, pl. 189, f. 5.

Porizoma blandiata, Hubn Verz. Schm. 327, 3163.

Melanthia blandiata, Boisd. Ind. 217, 1796.

Larentia blandiaria, Herr.-Sch. *Eur. Schm.* iii. 153, 116, pl. 47, f. 290, 291.

Melanthia albidata, Eversm. *Bull. Soc. Imp. Nat. Mosc.* 1842; *Faun. Volg.-Ural.* 431.

Emmelesia blandiata, Steph. *Ill. Brit. Haust.* iii. 2996. *Guen. Phal.* ii. 296, 1385.

a—d. England. From Mr. Stephens' collection.

e—j. England.

k. Scotland. From Mr. Foxcroft's collection.

Genus 5. MICRODES.

Corpus gracile. Proboscis conspicua. Palpi longi, squamosi, rostriformes, acuti. Antennæ simplices, glabræ. Abdomen subdepressum, alas posticas superans. Pedes graciles, læves; tibiæ posticæ quadricaratae. Alæ anticæ oblongæ, subangulatæ, lineis angustis, fascia exteriori pallida bene determinata. *Mas.*—Palpi porrecti, trigoni, articulis indistinctis. *Fœm.*—Palpi longiores, rectangulati, subascendentes; articulus 3us brevis, distinctus.

Microdes, *Guen. Phal.* ii. 297.

Body slender. Proboscis distinct. Palpi long, squamous, forming a straight acute rostrum. Antennæ simple and smooth in both sexes. Abdomen slightly depressed, extending beyond the hind wings. Legs slender, smooth; hind tibiæ with four long spurs. Fore wings oblong, nearly rectangular; lines slender; the pale band beyond the exterior line always distinct. Hind wings rounded. *Male.*—Palpi horizontal, triangular; joints indistinct. *Female.*—Palpi rectangular, slightly ascending, one-third longer than those of the male; third joint short, distinct.

1. MICRODES VILLOSATA.

Mas. Var.? *Cinerea*; alæ anticæ lineis nigricantibus denticulatis incompletis, linea submarginali albida denticulata strigas nigras emittente, linea marginali nigra interrupta; posticæ albidæ, nitentes, ocello atro pupilla chalybea.

Microdes villosata, *Guen. Phal.* ii. 297, 1386, pl. 15, f. 8.

a. Sydney. From Mr. Lambert's collection.

b, c. Tasmania. Presented by M. Allport, Esq.

2. MICRODES SQUAMULATA.

Mas. *Nigricante-cinerea*; abdomen ochraceum, basi apiceque nigro-cinereo conspersum; alæ anticæ lineis nonnullis fasciisque duabus pallidioribus nigro punctatis, areola pyriformi; posticæ cinereæ, macula discali e squamis flavescence-cinereis.

Microdes squamulata, Guen. *Phal.* ii. 298, 1387.

Tasmania.

3. MICRODES SITELLATA.

Fœm. *Nigro-cinerea*; palpi longi, recti, cinerei, articulo 3o distincto; alæ anticæ fasciis duabus pallidis, 2a magis determinata e punctis divisa, tinctura exteriori lateritia, linea submarginali pallida dentata conspicua; posticæ pallidiores, puncto discali, lineis duabus margineque saturatioribus.

Microdes sitellata, Guen. *Phal.* ii. 298, 1398.

Australia?

Genus 6. EUPITHECIA.

Corpus breve, gracile. Proboscis conspicua. Palpi lati, rostriformes, porrecti aut incumbentes, rude squamosi, frontem superantes; articuli indistincti. Antennæ graciles, breviusculæ, maris pubescentes. Abdomen sæpe subcristatum basique fasciatum. Pedes breviusculi; tibiæ posticæ quadricalcaratæ. Alæ elongatæ, angustæ, nebulosæ, læves, concolores, lituris non diversis. Mas.—Abdomen cylindricum, concavum, subcarinatum, apice elevatum.

Larentia, p., *Treit.*; *Dup.*

Dyscymatoge, *Arcyonia*, *Leucocora*, *Eucymatoge*, *Tephroclystia*, *Hypepirritis* et *Chloroclystis*, *Hubn. Verz. Schm.* 323—325, 329.

Eupithecia, *Curt.*; *Steph.*; *Boisd.*; *Dup.*; *Herr.-Sch.*; *Guen. Phal.* ii. 298.

Body short, slender. Proboscis distinct. Palpi broad, rostriform, porrect or incumbent, with rough scales, extending beyond the front; joints indistinct. Antennæ slender, rather short, pubescent in the male. Abdomen often with a dark band at the base, and with very small crests; that of the male slightly keeled, cylindrical and concave to the last segment, which is elevated. Legs rather short; hind tibiæ with four spurs. Wings elongate, narrow, clouded, smooth, alike in colour and with like markings, horizontal and expanded in repose.

Europe.

The *Eupitheciæ* of Europe and of the neighbouring part of Asia are divided by Guenée into fifteen groups, which are here adopted.

Group 1.

1. EUPITHECIA CERUSSARIA.

Mas et fœm. *Flavescente-alba; caput rufescens; abdomen punctis dorsalibus nigris; alæ anticæ lituris costalibus interioribus lineisque quatuor denticulatis fusco punctatis rufescentibus; posticæ bilineatæ.*

Eupithecia cerussaria, Leder. *Faun. Chypr. Beyr.* 39, pl. 3, f. 9.
Guen. *Phal.* ii. 302, 1389.

Beyrout.

Group 2.

2. EUPITHECIA BREVICULATA.

Albida; alæ anticæ lineis subcinereis maculisque rubido-fuscis; posticæ lineis subcinereis.

Melanthia breviculata, Donzel, *Ann. Soc. Ent. Fr.* vi. 478, 7, pl. 18, f. 7. Geyer, *Sup. Hubn. Geom.* f. 596. Dup. *Lep. Sup.* iv. 112, pl. 59, f. 9. Boisd. *Ind.* 217, 1799.

Eupithecia breviculata, Herr.-Sch. *Eur. Schm.* iii. 117, 19. Guen. *Phal.* ii. 303, 1390.

Central and South France.

Group 3.

3. EUPITHECIA VENOSATA.

Cervina; alæ fasciis duabus angulosis pallidioribus nigro marginatis et interlineatis, 1a incompleta, lineis basali, media et marginali nigris.

Phalæna venosata, Fabr. *Ent. Syst.* iii. 2, 197, 249.

Geometra venosata, Bork. *Eur. Schm.* v. 542, 287. Hubn. *Geom.* pl. 47, f. 244. Haw. *Lep. Brit.* 357.

Geometra decussata, Donovan. *Brit. Ins.* viii. 266, f. 3.

Geometra insignata, Hubn. *Beitr.* 4, pl. 2, f. G. Bork. *Eur. Schm.* v. 145.

Larentia venosata, *Treit. Schm.* vi. 2, 137, 43. *Dup. Lep.* v. 436, pl. 204, f. 5. *Frey. Beitr.* iii. pl. 204.

Arcyonia venosata, *Hubn. Verz. Schm.* 325, 3143

Eupithecia venosata, *Steph. Ill. Brit. Haust.* iii. 290, 35. *Boisd. Ind.* 210, 1703. *Herr.-Sch. Eur. Schm.* iii. 118, 23. *Delah. Schm.* 187. *Guen. Phal.* ii. 303, 1391.

a—h. England. From Mr. Stephens' collection.

c—m. England.

n—q. Europe. From M. Becker's collection.

r. Paris. Presented by Dr. Boisduval.

4. EUPITHECIA CONSIGNATA.

Cinerea; *alæ anticæ linea basali fusca, fasciis duabus pallidis fusco marginatis, 1a interlineata, litura discali magna atra, maculis costalibus cervinis*; *posticæ lunula parva atra.*

Geometra consignata, *Bork. Eur. Schm.* v. 315, 146. *Hubn. Geom.* pl. 47, f. 245. *Haw. Lep. Brit.* 357.

Larentia consignata, *Treit. Schm.* vi. 2, 117, 30. *Dup. Lep.* v. 438, pl. 201, f. 6. *Frey. Beitr.* iii. pl. 204, a—c.

Arcyonia consignata, *Hubn. Verz. Schm.* 325, 3144.

Eupithecia consignata, *Steph. Ill. Brit. Haust.* iii. 290, 34. *Boisd. Ind.* 209, 1702. *Herr.-Sch. Eur. Schm.* iii. 118, 24. *Delah. Schm.* 188. *Guen. Phal.* ii. 303, 1392.

a. England. From Mr. Stephens' collection.

b. England.

5. EUPITHECIA DESPECTARIA.

Mas. *Pallide argillacea*; *abdominis segmentum 1um cinereo conspersum*; *alæ angustæ, linea marginali nigra interrupta, fimbria vix intercisâ*; *anticæ lineis tribus nigris flexis gracilimis, 2a 3aque remotis apud costam dilatatis, litura discali atomisque costalibus nigris, litura submarginali nigricante vaga*; *posticæ basi pallidæ, fascia lata submarginali e atomis, margine argillaceo.*

Eupithecia despectaria, *Leder. Schrift. Zool. Bot. Ver.* 1853, 32, pl. 6, f. 7. *Guen. Phal.* ii. 304, 1393.

Altai.

Group 4.

6. EUPITHECIA LINARIATA.

Cinerea; alæ lineis subundulatis fuscescentibus, linea exteriori nigro punctata, spatio marginali fuscescente lineam submarginalem albidam denticulatam includente; anticæ fasciis duabus cervinis albido marginatis, plagis duabus exterioribus nigricantibus diffusis, litura discali transversa nigra.

———, *De Vill. Ent. Linn.* iv. 508.

Geometra linariata, *Wien. Verz.* 113, 10. *Ill. N. Ausg. dess.* i. 454, 10. *Gotze, Ent. Beitr.* iii. 3, 400, 184. *Hubn. Geom.* pl. 46, f. 242. *Haw. Lep. Brit.* 364.

Phalæna linariata, *Fabr. Ent. Syst.* iii. 2, 190, 224.

Larentia linariata, *Treit. Schm.* vi. 2, 122, 33. *Dup. Lep.* v. 458, pl. 203, f. 2.

Eucymatoge linariata, *Hubn. Verz. Schm.* 325, 3147.

Eupithecia linariata, *Steph. Ill. Brit. Haust.* iii. 279, 1. *Curt. Brit. Ent.* ii. pl. 64. *Boisd. Ind.* 211, 1720. *Herr.-Sch. Eur. Schm.* iii. 118, 21. *Delah. Schm.* 185. *Guen. Phal.* ii. 304, 1394.

a—c. England. From Mr. Stephens' collection.

d—g. England. From Mr. Hill's collection.

h, i. England. From Mr. King's collection.

j. England.

k. Europe. From M. Becker's collection.

7. EUPITHECIA PULCHELLATA.

Cinerea; alæ lineis indistinctis albidis, venis nigricante notatis, spatio marginali lineam submarginalem albidam denticulatam includente; anticæ fascia interiore cervina, lunula discali nigra.

Eupithecia pulchellata, *Steph. Ill. Brit. Haust.* iii. 280, 2. *Guen. Phal.* ii. 305, 1395, pl. 12, f. 6.

a—d. England. From Mr. Stephens' collection.

e. England. From Mr. Foxcroft's collection.

f. Ireland. From Mr. Bouchard's collection.

g, h. England.

Group 5.

8. EUPITHECIA EXTREMATA.

Alba; abdomen cyanescente-cinereum; alæ carneo-fusco plus minusve tinctæ, fimbria fusco notata; anticæ basi lineolaque marginali argillaceis, lineis duabus, lituris duabus plagaque costali cyaneo-nigris; posticæ macula basali cyaneo-cinerea, puncto discali, margine cinerascete albo interlineata.

Phalæna extremata, *Fabr. Ent. Syst.* iii. 2, 202, 270.

Geometra extremata, *Bork. Eur. Schm.* v. 221? *Hubn. Geom.* f. 239.

Leucocora extremata, *Hubn. Verz. Schm.* 325, 3141.

Eupithecia extremata, *Boisd. Ind.* 209, 1695. *Guen. Phal.* ii. 305, 1396.

Eupithecia glaucomictata, *Lederer.*

Corsica.

9. EUPITHECIA CENTAUREATA.

Alba; abdomen fuscum, basi apiceque albidum; alæ subcervino vix suffusæ, lineis duabus dentatis nigris, linea submarginali alba denticulata, fimbria nigricante guttata; anticæ plagis costalibus nigris; lunula discali atra; posticæ lineis subobsoletis.

———, *Roës. Ins.* i. 5, 30, pl. 7, f. 1—3. *Geoffr. Ins.* ii. 141, 64.

De Vill. Ent. Linn. iv. 506. *Frisch, Ins.* iv. 31, pl. 16, f. 1—3.

Geometra centaureata, *Wien. Verz.* 114, 7. *Ill. N. Ausg. dess.* i. 465, 7. *Bork. Eur. Schm.* v. 219? *Hubn. Geom.* pl. 46, f. 240; pl. 88, f. 452. *Haw. Lep. Brit.* 358. *Frey. Beitr.* i. 23, pl. 6, f. 2.

Phalæna centaureata, *Fabr. Ent. Syst.* iii. 2, 186, 209.

Geometra succenturiata, *Clerck, Icon.* pl. 8, f. 11. *Brahm, Ins. Kal.* ii. 1, 391, 270. *Bork. Eur. Schm.* v. 329, 157. *Schr. Faun. Boic.* ii. 2, 34, 1661. *Sepp. Schm.* vi. pl. 35, f. 1—7.

Phalæna signata, *Scop. Ent. Carn.* 231, 578.

Larentia centaureata, *Treit. Schm.* vi. 2, 126, 36. *Dup. Lep.* v. 451, pl. 202, f. 7.

Leucocora centaureata, *Hubn. Verz. Schm.* 325, 3140.

Eupithecia centaureata, *Steph. Ill. Brit. Haust.* iii. 289, 31. *Boisd. Ind.* 209, 1694. *Herr.-Sch. Eur. Schm.* iii. 118, 20. *Delah. Schm.* 184. *Guen. Phal.* ii. 306, 1397.

a—l. England. From Mr. Stephens' collection.

m, n. England. From Mr. King's collection.

o—t. England.

v, u. Europe. From M. Becker's collection.

10. EUPITHECIA LIGUSTICATA.

Fusca; alæ anticæ lineis transversis plurimis undulatis cinereo-albidis, macula pallida fulvo-fusca; posticæ cinereæ, undulatæ.

Larentia ligusticata, Donz. *Ann. Soc. Ent. Fr.* vii, 431, pl. 12, f. 5.

Dup. Lep. Sup. iv. 371, pl. 80, f. 5.

Eupithecia ligusticata, Boisd. *Ind.* 208, 1684. *Guen. Phal.* ii. 307, 1398.

Eastern Pyrenees.

11. EUPITHECIA SUCCENTURIATA.

Fusca; thoracis latera alba; alæ albido suffusæ, lineis plurimis cinereis angulosis aut undulatis ex parte duplicatis et nigricante notatis, gutta discali nigra; posticæ lineis minus determinatis.

———, *De Vill. Ent. Linn.* ii. 351, 542.

Phalæna-Geometra succenturiata, *Linn. Syst. Nat.* i. 2, 872, 267; *Faun. Suec.* 1294. *Gmel. ed. Syst. Nat.* i. 5, 2481, 267. *Clerck, Icon.* pl. 8, f. 11.

Phalæna succenturiata, *Fabr. Sp. Ins.* ii. 264, 130; *Mant. Ins.* ii. 208, 196; *Ent. Syst.* iii. 2, 195. 241.

Geometra succenturiata, *Wien. Verz.* 110, 24. *Schw. Beitr.* 125. *Hubn. Geom.* pl. 89, f. 459. *Haw. Lep. Brit.* 358. *Ill. N. Ausg. dess.* i. 441, 24.

Larentia succenturiata, *Treit. Schm.* vi. 2, 130, 37. *Dup. Lep.* v. 448, pl. 202, f. 5. *Fisch. Rost. Beitr.* 72.

Leucocora succenturiata *Hubn. Verz. Schm.* 325, 3139.

Eupithecia succenturiata, *Boisd. Ind.* 209, 1693. *Herr.-Sch. Eur. Schm.* iii. 119, 28. *Delah. Schm.* 190. *Guen. Phal.* ii. 307, 1399.

Geometra disparata, *Hubn. Geom.* f. 246, 247.

Larentia oxydata, *Treit. Schm.* vi. 2, 114, 27.

Geometra subfulvata, *Haw. Lep. Brit.* 357.

Eupithecia subfulvata, *Steph. Ill. Brit. Haust.* iii. 287, 27.

Eupithecia cognata, *Steph. Ill. Brit. Haust.* iii. 288, 28.

Eupithecia oxydata, *Boisd. Ind.* 209, 1692.

Larentia ferruginata? *Dup. Lep. Sup.* 50, pl. 54, f. 8.

a—c. England. From Mr. Stephens' collection.

d—g. England.

12. EUPITHECIA SUBUMBRATA.

Albido-cinerea; *alæ angustæ, lineis cinereis duplicatis denticulatis, linea submarginali unica, linea marginali nigricante interrupta*; *anticæ productæ, acutæ, litura discali nigra*; *posticæ puncto discali nigricante.*

Geometra subumbrata, *Wien. Verz.* 25. *Fisch. Rosl. Beitr.* 72.

Eupithecia piperata, *Steph. Ill. Brit. Haust.* iii. 288, 30.

Eupithecia obrutaria, *Herr.-Sch. Eur. Schm.* iii. 119, 27, pl. 24, f. 145, 146. *Guen. Phal.* ii. 309, 1400.

a—c. England. From Mr. Stephens' collection.

d—j. England. From Mr. Bouchard's collection.

k—n. England.

Group 6.

13. EUPITHECIA MODICATA.

Cinerascente-albida; *alæ anticæ albo lineatæ, lineis basi confusis, spatio medio nigro-cinereo, macula costali quadrata bene determinata, macula discali cinerascente*; *posticæ bifasciatæ, basi cinereæ.*

Geometra modicata, *Hubn. Geom.* f. 361.

Hypepirritis modicata, *Hubn. Verz. Schm.* 329, 3179.

Eupithecia modicata, *Guen. Phal.* ii. 310, 1401.

Germany.

14. EUPITHECIA IMPURATA.

Cinerea; *alæ fuscescente conspersæ, lineis diffusis denticulatis fuscescentibus, linea exterior nigricante punctata, puncto discali nigricante.*

Geometra impurata, *Hubn. Geom.* f. 347.

Hypepirritis impurata, *Hubn. Verz. Schm.* 329, 3180.

Larentia impuratis, *Dup. Lep. v.* 446, pl. 202, f. 4.

Eupithecia modicaria, *Boisd. Ind.* 208, 1679. *Herr.-Sch. Eur. Schm.* iii. 119, 30. *Delah. Schm.* 192?

Eupithecia minoraria, *Boisd. Ind.* 208, 1680.

Eupithecia semigrapharia, *Bruand, Herr.-Sch. Eur. Schm. Sup.* 76, f. 537.

Eupithecia unitaria, *Herr.-Sch. Eur. Schm. Sup.* 77, f. 524, 525.

France. Germany. Switzerland.

15. EUPITHECIA DENTICULATA.

Albido-cinerea; alæ lineis denticulatis fuscescentibus vix determinatis, punctis nonnullis venarum elongatis nigricantibus, margine cinereo lineam submarginalem pallidam denticulatam includente, puncto discali nigro.

Larentia denticulata, *Treit. Schm.* vi. 2, 132, 38. *Dup. Lep.* v. 442, pl. 202, f. 2.

Eupithecia denticulata, *Boisd. Ind.* 208, 1681. *Herr.-Sch. Eur. Schm.* iii. 123, 63, pl. 21, f. 126.

a, b. Europe. From M. Becker's collection.

16. EUPITHECIA GRAPHATA.

Albido-cinerea; alæ lineis plurimis denticulatis fuscescentibus, linea submarginali albida, puncto discali nigro, fimbria fusco notata.

Larentia graphata, *Treit. Schm.* vi. 2, 144. *Dup. Lep. Sup.* iv. 54, pl. 54, f. 12.

Eupithecia graphata, *Boisd. Ind.* 208, 1682. *Fisch. Rosl. Schm.* 72. *Herr.-Sch. Eur. Schm.* iii. 123, 62, pl. 29, f. 179, 180. *Delah. Schm.* 210. *Guen. Phal.* ii. 312, 1404.

Hungary. Valais.

a, b. Europe. From M. Becker's collection.

17. EUPITHECIA SCRIPTARIA.

Obscure cinerea; abdomen incisuris albidis; alæ lineis plurimis albidis denticulatis, linea submarginali magis determinata, linea marginali albida interrupta.

Eupithecia scriptaria, *Herr.-Sch. Eur. Schm.* iii. 121, 45, pl. 20, f. 123. *Delah. Schm.* 201. *Guen. Phal.* ii. 312, 1405.

Styria. Mount Simplon.

18. EUPITHECIA MAYERATA.

Saturate ferrugineo-cinerea; antennæ maris vix ciliatæ; abdomen guttis dorsalibus nigris; alæ anticæ rufescente tinctæ, lineis confusis, linea submarginali tenuissima dentata bene determinata; posticæ trilineatæ,

Eupithecia Mayerata, *Guen. Phal.* ii. 312, 1406.

Eupithecia Mayeri, *Mann, Zol. Bot. Ver. Wien.* ii. 134.

Austria.

19. EUPITHECIA SILENATA.

Nigro-cinerea; alæ lineis subpallidioribus; anticæ puncto discali magno atro, linea submarginali atra valde dentata et concisa; posticæ disco pallidiores, linea incompleta.

Eupithecia Silenata, *Standfuss, Ent. Zeit. Stett.* ix. 309; *Zeisch. Entom. Bresl.* 1849, No. 11, 15, pl. 1, f. 3. *Herr.-Sch. Eur. Schm. Sup.* 77, f. 544. *Guen. Phal.* ii. 313, 1407.

Silesia.

20. EUPITHECIA RIPARIA.

Subcinereo-alba, parva; corpus album; alæ anticæ lineis quinque pallide cinereis concisis parallelis æqualibus subdentatis, linea marginali angusta pallide cinerea; posticæ lineis duabus punctoque discali.

Eupithecia riparia, *Herr.-Sch. Eur. Schm. Sup.* 70, f. 518, 519. *Guen. Phal.* ii. 313, 1408.

Fiume.

21. EUPITHECIA TRIBUNARIA.

Albo-cinerea; abdomen fasciis pallide cinereis; alæ anticæ productæ, lineis tribus flexis, lineola inter lineas 2am et 3am, puncto nullo discali, margine lato cinereo, costa recta; posticæ magis fuscescentes.

Eupithecia tribunaria, *Herr.-Sch. Sup.* 76, f. 522, 523. *Guen. Phal.* ii. 314, 1409.

Georgia in Asia.

22. EUPITHECIA EXTRAVERSARIA.

Eupithecia extraversaria, Herr.-Sch. Eur. Schm. Sup. 76, f. 520, 521. Guen. Phal. ii. 314, 1411.

The characters of this species and of *E. tripunctaria* are omitted on account of having no access to the descriptions of them.

Amasieh.

23. EUPITHECIA SUBSEQUARIA.

Fœm. *Testaceo-alba; abdomen fasciis albidis; alæ anticæ lineis plurimis tenuissimis parallelis subsinuatis, venis tribus argillaceo-fusco tinctis, strigulis marginalibus tenuissimis, fimbria albo notata; posticæ lineis subtus magis dentatis.*

Eupithecia subsequaria, Herr.-Sch. Sup. 76, f. 520, 521. Guen. Phal. ii. 314, 1411.

Amasieh.

24. EUPITHECIA TRIPUNCTARIA.

Eupithecia tripunctaria, Herr.-Sch. Eur. Schm. Sup. 77, f. 461. Guen. Phal. ii. 315, 1412.

Germany.

25. EUPITHECIA CAUCHYATA.

Ochraceo-alba; alæ latæ, rotundatæ, puncto discali, radiis fasciaque lata marginali lineam submarginalem includente argillaceo-cinereis; anticæ costa testacea, fimbria fusco notata; posticæ lineis subtus bene determinatis.

Eupithecia cauchyata, Dup. Lep. v. 440, pl. 202, f. 1. Boisd. Ind. 208, 1683. Guen. Phal. ii. 315, 1413.

Alsatia. Altai.

26. EUPITHECIA AGGREGATA.

Fœm. *Testaceo-flava, E. cauchyatæ affinis; alæ anticæ lineis tenuissimis valde approximatis, linea submarginali angulosa bene determinata, puncto discali tenuissimo albo-marginato.*

Eupithecia aggregata, Guen. Phal. ii. 315, 1414.

Altai.

27. EUPITHECIA PERNOTATA.

E. cauchyatae statura; alae angustiores; abdomen nigro-cinereo albidoque varium; alae anticae flavescence-cinerascentes, venis cinereo obscuro alboque notatis, lineis pallidis undulato dentatis, spatio marginali subobscuriore lineas duas includente, litura discali oblonga pallido marginata; posticae lituris confusis, subtus pallidae, linea submarginali nigricante.

Eupithecia pernotata, Guen. *Phal.* ii. 316, 1415.

Mont Rosa. Mont Ossolano.

28. EUPITHECIA ITALICATA.

Mas. *E. cauchyatae et E. pernotatae affinis; abdomen albo-cinereum; alae anticae albæ, lanceolatae, puncto discali nigro, lineis angustis cinereis, duabus exterioribus approximatis parallelis non dentatis, margine obscuriore lineam submarginalem denticulatam includente; posticae pallidiores.*

Eupithecia italicata, Guen. *Phal.* ii. 316, 1416.

Lombardy.

Group 7.

29. EUPITHECIA PLUMBEOLATA.

Fuscescente-cinerea; alae lineis fuscis undulatis indistinctis cinereo marginatis apud venas obscurioribus, linea submarginali albida denticulata; anticae puncto discali nigricante.

Geometra scabiosata? Bork. *Eur. Schm.* v. 161.

Geometra plumbeolata, Haw. *Lep. Brit.* 360, 137.

Geometra pusillata? Haw. *Lep. Brit.* 359.

Larentia valerianata? Treit. *Schm.* vi. 2, 103, 18. *Fisch. Rosl. Beitr.* 54.

Larentia isogrammata, Treit. *Schm.* vi. 2, 100, 15. *Fisch. Rosl. Beitr.* 54.

Eupithecia plumbeolata, Steph. *Ill. Brit. Haust.* iii. 287, 26. *Guen. Phal.* ii. 317, 1417.

a—m. England. From Mr. Stephens' collection.

n—q. England. From Mr. Bouchard's collection.

r—v. England.

30. EUPITHECIA PYGMÆATA.

Cinereo-cervina; *alæ angustæ, cinereis denticulatis subobsoletis, linea submarginali albida denticulata distincta*; *anticæ productæ.*

Geometra pygmæata, *Hubn. Geom.* pl. 45, f. 234.

Larentia pygmæata, *Treit. Schm.* vi. 2, 135, 40. *Dup. Lep.* v. 480, pl. 204, f. 6.

Eupithecia pygmæata, *Boisd. Ind.* 210, 1717. *Herr.-Sch. Eur. Schm.* iii. 122, 52, pl. 65, f. 401, 402. *Guen. Phal.* ii. 318, 1418.

Eupithecia palustraria, *H. Doubleday, Zool.* viii. cv.

a. England. Presented by Edwin Shepherd, Esq.

b—l. England. From Mr. Stephens' collection.

m, n. England. From Mr. King's collection.

o—r. England.

s, t. Europe. From M. Becker's collection.

31. EUPITHECIA IMMUNDATA.

Obscure cinerea; *alæ nigro conspersæ, punctis marginalibus nigris, lineis quatuor flexis subundulatis nigro ex parte marginatis*; *posticæ vix lineatæ.*

Eupithecia immundata, *Zell. Isis*, 1845, 194. *Guen. Phal.* ii. 319, 1419.

Eupithecia argillacearia, *Herr.-Sch. Eur. Schm.* iii. 122, 55, pl. 23, f. 143, 144.

Bohemia. Livonia.

Group 8.

32. EUPITHECIA GUINARDIARIA.

Fusco-rubricans; *alæ anticæ venis nigris albido strigulatis, lineis plurimis undulatis albis, linea media albida geminata valde conspicua*; *posticæ lineis undulatis obscurioribus.*

Eupithecia Guinardiaria, *Boisd. Ind.* 211, 1732. *Dup. Lep. Sup.* iv. 374, pl. 80, f. 3. *Herr.-Sch. Eur. Schm.* iii. 119, 26, pl. 45, f. 273? *Guen. Phal.* ii. 319, 1420.

South France. Prussia.

33. EUPITHECIA HELVETICARIA.

Fusco-cinerea, major; alæ anticæ subviolaceæ, lineis undulatis subobsoletis, fasciis 1a et 2a duplicatis, 3a triplici; posticæ fere innotatæ.

Eupithecia helveticaria, *Anderregg, Boisd. Ind.* 208, 1687. *Dup. Lep. Sup.* iv. 39, pl. 53, f. 7. *Herr.-Sch. Eur. Schm.* iii. 120, 38, pl. 21, f. 130; pl. 22, f. 131—133. *Delah. Schm.* 197. *Guen. Phal.* ii. 320, 1421.

Scotland. Valais, Switzerland.

34. EUPITHECIA ARCEUTHATA.

Obscure cinerea; alæ punctis marginalibus nigris; anticæ fasciis tribus pallidioribus nigro marginatis et interlineatis, linea submarginali pallidiore denticulata; posticæ bilineatæ.

Geometra arceuthata, *Frey. Beitr.* iv. pl. 372.

Eupithecia arceuthata, *Herr.-Sch. Eur. Schm.* iii. 120, 39, pl. 22, f. 134—137. *Delah. Schm.* 198. *Guen. Phal.* ii. 321, 1422.

Germany.

35. EUPITHECIA SATYRATA.

Cinerea; alæ lineis denticulatis fuscescentibus vix conspicuis, linea submarginali pallide cinerea subobsoleta, linea marginali fusca interrupta; anticæ lineis apud costam dilatatis.

Geometra Satyrata, *Hubn. Geom.* pl. 85, f. 439.

Larentia Satyrata, *Treit. Schm.* vi. 2, 108, 22. *Frey. Beitr.* iv. pl. 294, f. 1.

Eupithecia Satyrata, *Boisd. Ind.* 209, 1689. *Herr.-Sch. Eur. Schm.* iii. 120, 37, pl. 24, f. 147, 148. *Delah. Schm.* 196. *Guen. Phal.* ii. 321, 1423.

Eupithecia grammaria, *Ramb. Boisd. Ind.* 208, 1686.

Eupithecia Silenaria, *Herr.-Sch. Eur. Schm.* iii. pl. 69, f. 428.

Eupithecia atraria, *Herr.-Sch. Eur. Schm.* iii. 121, 44, pl. 25, f. 154, 155.

Eupithecia callunaria, *Stainton, MSS. H. Doubleday, Zool.* viii. cv.

a—d. England. From Mr. Stephens' collection.

e, f. England. From Mr. Bouchard's collection.

g. Ireland. From Mr. Bouchard's collection.

h. Scotland. From Mr. Foxcroft's collection.
i—l. England.

36. EUPITHECIA VERATRARIA.

Magna, cinerascens; abdomen subcristatum, incisuris fuscis, strigis duabus transversis nigris; alæ latæ, margine exteriori subflexo; anticæ acutæ, rufescente subinctæ, albo conspersæ, striga discali atra, lineis duabus exterioribus e punctis venarum nigris albo notatis, linea submarginali valde dentata.

Eupithecia veratraria, Herr.-Sch. *Eur. Schm.* iii. 120, 36, pl. 25, f. 152. *Guen. Phal.* ii. 323, 1424.

Germany. Austria. Styria.

37. EUPITHECIA EGENARIA.

Magna, pulveroso cinerea; alæ anticæ sublanceolatae, apice obscuriores, lineis duabus mediis duplicatis remotis flexuosis non dentatis, striga discali recta elongata concisa, linea submarginali indistincta, fimbria intercisæ; posticæ subtus fascia lata arcuata nigricante marginata et interlineata.

Eupithecia egenaria, Herr.-Sch. *Eur. Schm.* iii. 121, 43, pl. 46, f. 279, 280. *Guen. Phal.* ii. 323, 1425.

Bavaria. Wales.

38. EUPITHECIA COMPRESSATA.

Fœm. E. castigatæ affinis; alæ anticæ magis productæ, lineis duabus exterioribus obliquis subrectis parallelis valde approximatis et concisis et determinatis, linea submarginali indistincta.

Eupithecia compressata, *Guen. Phal.* ii. 324, 1426.

France?

39. EUPITHECIA CASTIGATA.

Cinerea; alæ latiusculæ, sericeæ, lineis subobsoletis pallide cinereis denticulatis duplicatis, venis exterioribus nigricante punctatis, linea submarginali pallide cinerea denticulata intus fuscescente marginata; anticæ vix productæ, puncto discali nigro.

Geometra castigata, *Hubn. Geom.* pl. 89, f. 456. *Frey. Beitr.* iv. pl. 294, f. 2. *Fisch. Rosl.* 70.

Geometra austerata, *Hubn. Geom.* pl. 89, f. 457.

- Geometra minutata*? Hubn. *Geom.* f. 237.
Geometra residuata? Hubn. *Geom.* pl. 91, f. 467.
Geometra pygmæata? Bork. *Eur. Schm.* v. 159.
Larentia austerata, Treit. *Schm.* vi. 2, 107, 21. Eversm. *Faun. Volg.-Ural.* 412. Dup. *Schm.* v. 472, pl. 204, f. 1.
Larentia residuata? Treit. *Schm.* vi. 2, 105, 19. Eversm. *Faun. Volg.-Ural.* 412.
Tarachia castigata, Hubn. *Verz. Schm.* 324, 3136.
Tarachia austerata, Hubn. *Verz. Schm.* 324, 3137.
Tephroclystia minutata? Hubn. *Verz. Schm.* 324, 3126.
Eupithecia valerianaria, Boisd. *Ind.* 210, 1710.
Eupithecia indigaria, Boisd. *Ind.* 210, 1716.
Eupithecia pimpinellata, Zell. *Isis.*
Eupithecia castigata, Dup. *Lep. Sup.* iv. 37, pl. 57, f. 6. Herr.-Sch. *Eur. Schm.* iii. 121, 48, pl. 27, f. 164—167. Delah. *Schm.* 203. Guen. *Phal.* ii. 324, 1427.
Eupithecia nebulata, Steph. *Ill. Brit. Haust.* iii. 284, 14.
a—l. England. From Mr. Stephens' collection.
m. England. From Mr. Bouchard's collection.
n—t. England.
v. Europe. From M. Becker's collection.

40. EUPITHECIA PIMPINELLATA.

Ferrugineo-cinerea; *alæ angustæ, lineis vix conspicuis, linea submarginali albida distincta denticulata nigricante submarginata, linea marginali nigricante interrupta; anticæ productæ, puncto discali nigro, linea exterior e punctis venarum minimis nigris.*

- Geometra pimpinellata*, Hubn. *Geom.* pl. 86, f. 443, 444.
Geometra albipunctata, Haw. *Lep. Brit.* 360.
Larentia pimpinellata, Treit. *Schm.* vi. 2, 115, 28. Dup. *Lep.* v. 465, pl. 203, f. 5.
Eupithecia albipunctata, Steph. *Ill. Brit. Haust.* iii. 284, 15.
Eupithecia pimpinellata, Guen. *Phal.* ii. 325, 1428.
 England. France. Germany.

41. EUPITHECIA MERINATA.

Pallide cinerascens; *alæ anticæ subcyanescens, lineis attenuatis, venis nigro punctatis, fasciis duabus rufescente-fuscis, la*

basali, 2a submarginali, fasciola exterior pallida, litura discali nigra oblonga, spatio medio lineas cinereas albasque includente.

Eupithecia merinata, Guen. *Phal.* ii. 326, 1429.

South France. Corsica.

42. *EUPITHECIA LARICIATA.*

Obscure cinerea; alæ punctis marginalibus nigris; anticæ lineis quinque pallidioribus, 2a 4aque duplicatis, 3a undulata, 5a denticulata submarginali; posticæ bilineatæ.

Geometra lariciata, Frey. *N. Beitr.* iv. 135, pl. 366.

Eupithecia lariciata, Herr.-Sch. *Eur. Schm.* iii. 119, 29, pl. 28, f. 170—174. Delah. *Schm.* 191. Guen. *Phal.* ii. 327, 1430.

Silesia. Bohemia. Switzerland.

43. *EUPITHECIA TRISIGNARIA.*

Media, cinereo-rufescens; alæ anticæ latiores, acutæ, obsoletius signatæ, lunula discali maxima maculisque hanc includentibus costalibus duabus fuscis.

Eupithecia trisignaria, Herr.-Sch. *Eur. Schm.* iii. 120, 41, pl. 28, f. 175, 176. Delah. *Schm.* 200. Guen. *Phal.* ii. 327, 1431.

Switzerland.

44. *EUPITHECIA PUSILLATA.*

Pallide cinerea; alæ lineis denticulatis punctoque discali fuscis, spatio marginali fuscescente lineam submarginalem cineream includente, linea marginali nigro-fusca interrupta, fimbria fusco punctata; posticæ lineis indistinctis.

———, *De Vill. Ent. Linn.* iv. 512.

Geometra pusillata, Wien. *Verz.* 110, 26. Bork. *Eur. Schm.* v. 335, 160. Ill. *N. Ausg. dess.* i. 22, 446. Hubn. *Geom.* pl. 73, f. 378. Frey. *Beitr.* ii. pl. 119, f. 3.

Phalæna pusillata, Fabr. *Ent. Syst.* iii. 2, 204, 279. Schr. *Faun. Boic.* ii. 2, 34, 1662.

Larentia pusillata, Treit. *Schm.* vi. 2, 119, 31. Dup. *Lep.* v. 478, pl. 204, f. 5.

Geometra subumbrata, Hubn. *Geom.* f. 233.

Tephroclystia pusillata, Hubn. *Verz. Schm.* 324, 3121.

Tephroclystia subumbrata, Hubn. Verz. Schm. 323, 3119.

Eupithecia subumbrata, Boisd. Ind. 210, 1707.

Eupithecia pusillata, Boisd. Ind. 210, 1708. Herr.-Sch. Eur. Schm. iii. 122, 57, pl. 26, f. 158, 159. Delah. Schm. 206. Guen. Phal. ii. 328, 1433.

a—g. England. From Mr. Stevens' collection.

h—j. Europe. From M. Becker's collection.

45. EUPITHECIA TANTILLARIA.

E. pusillatæ valde affinis, paullo minor; alæ anticæ obscuriores, lineis minus conspicuis, duabus mediis parallelis sat approximatis fusco nebulosis, fascia exteriori pallida vix conspicua, linea submarginali distincta, puncto discali magno; posticæ angustiores, umbris duabus parallelis, puncto discali parvo.

Eupithecia tantillaria, Boisd. Ind. 210, 1709. Guen. Phal. ii. 329, 1434.

South France.

46. EUPITHECIA IRRIGUATA.

Albido-cinerea; alæ spatio marginali cervino, punctis marginalibus nigris elongatis; anticæ plagis costalibus cervinis nigro signatis, lineis obscuris incompletis, linea submarginali albido-cinerea, litura discali magna atra, fimbria fusco guttata.

Geometra irriguata, Hubn. Geom. pl. 77, f. 397.

Geometra variegata, Haw. Lep. Brit. 362.

Larentia irriguata, Treit. Schm. vi. 2, 124, 34. Dup. Lep. v. 454, pl. 202, f. 8. Fisch. Rosl. Schw. 71. Eversm. Faun. Volg.-Ural. 414.

Eupithecia irriguata, Boisd. Ind. 209, 1696. Herr.-Sch. Eur. Schm. iii. 123, 61. Guen. Phal. ii. 329, 1435.

Eupithecia variegata, Steph. Ill. Brit. Haust. iii. 290, 33.

France. Hungary.

a—c. England. From Mr. Stevens' collection.

47. EUPITHECIA DENOTATA.

Cervina aut pallide cinerea; alæ nigro subconspersæ, lineis denticulatis fuscis subobsoletis, linea submarginali albida denticulata; anticæ striga transversa discali atra; posticæ puncto discali nigro.

Geometra denotata, Hubn. *Geom.* f. 455.

Larentia pimpinellata? Treit. *Schm.* vi. 2, 115, 28.

Geometra singulariata, Haw. *Lep. Brit.* 360.

Eupithecia singulariata? Steph. *Ill. Brit. Haust.* iii. 283, 13.

Eupithecia pimpinellata, Herr.-Sch. *Eur. Schm.* iii. 123, 66, pl. 25, f. 153. Delah. *Schm.* 213.

Eupithecia denotata, Guen. *Phal.* ii. 330, 1436.

Germany. Switzerland. Styria.

a, b. England.

48. EUPITHECIA ALTAICATA.

Fuscescente-cinerascens, E. *denotatae* affinis; palpi breves; alæ squamis confertissimis albidis; anticae lineis plurimis bene determinatis fascias fingentibus, spatio marginali obscuriore lineam submarginalem concisam integram intus rufescente marginatam includente, puncto discali magno atro; posticae subtus margine lato saturatiore.

Eupithecia altaicata, Guen. *Phal.* ii. 330, 1437.

Altai.

49. EUPITHECIA INNOTATA.

Cinereo-fusca; alæ linea marginali interrupta nigricante; anticae lineis transversis angulosis duplicatis cinereis ex parte nigricante marginatis, gutta discali nigra; posticae lineis indistinctis, puncto discali nigro.

Geometra innotata, Hubn. *Geom.* pl. 86, f. 441, 442. Knoch, *Beitr.* i. 22, pl. 1, f. 7—9. Bork. *Eur. Schm.* v. 332, 158.

Geometra singulariata, Haw. *Lep. Brit.* 360.

Larentia innotata, Treit. *Schm.* vi. 2, 124, 35. Dup. *Lep.* v. 483, pl. 204, f. 8.

Eupithecia singulariata? Steph. *Ill. Brit. Haust.* iii. 283, 13.

Eupithecia residuata, Boisd. *Ind.* 209, 1690.

Eupithecia innotata, Boisd. *Ind.* 209, 1699. Herr.-Sch. *Eur. Schm.* iii. 119, 32, pl. 45, f. 274. Delah. *Schm.* 193. Guen. *Phal.* ii. 331, 1439.

Geometra tamarisciata, Frey. *Beitr.* ii. pl. 102, f. 1.

Europe.

a. England. From Mr. Stevens' collection.

b. England.

c, d. Europe. From M. Becker's collection.

e—g. Europe. From Mr. Milne's collection.

50. EUPITHECIA INDIGATA.

Minor, pallide rufescente-cinerea; alæ anticæ lanceolatae, acutæ, obsoletissime signatæ, lineis tribus parallelis in medio marginis interioris et lunula magna discali nigris.

Geometra indigata, Hubn. Geom. f. 399.

Larentia indigata, Zell. Isis, 1846, 197.

Eupithecia indigata, Herr.-Sch. Eur. Schm. iii. 121, 49, pl. 30, f. 183—186. Delah. Schm. Sup. 203, b. Guen. Phal. ii. 332, 1440.

a. England. Presented by Edwin Shepherd, Esq.

b. England. From Mr. Bouchard's collection.

c—e. England.

51. EUPITHECIA CONTERMINATA.

Cinerea, E. indigatæ affinis, minor; abdomen basi pallide cinereum; alæ magis fuscescentes; anticæ margine lato nigricante, puncto discali latiore, lineis magis sinuatis et approximatis, linea exterior, strigulis apud venas nigris contiguas; posticæ linea cinerea media plus determinata minus angulata.

Larentia conterminata, Zell. Isis, 1846, 197.

Eupithecia conterminata, Herr.-Sch. Eur. Schm. iii. 134. Guen. Phal. ii. 333, 1441.

Eupithecia Manuaria, Herr.-Sch. Eur. Schm. iii. 122, 58, pl. 25, f. 156. Delah. Schm. 207.

Livonia. Bohemia.

52. EUPITHECIA LIBANOTIDATA.

Pulveroso-cinerea, E. conterminatæ statura; alæ anticæ lineis duabus nigris tenuissimis apud costam valde dilatatis, lineæ exterioris flexura valde rotundata, lineis duabus parallelis approximatis tenuissimis puncto discali magno oblongo atro interruptis; posticæ puncto discali parvo.

Eupithecia libanotidata, Schlæger, Guen. Phal. ii. 333, 1442.

Eupithecia distinctaria, Herr.-Sch. Eur. Schm. iii. 121, 42, pl. 26, f. 162, 163.

Silesia.

53. EUPITHECIA CONSTRICTATA.

Cinerascens, *E. libanotidatæ* affinis; alæ margine lato subobscuriore lineam submarginalem pallidam denticulatam non dilatam includente; anticæ litura discali atra oblonga distinctissima, lineis duabus mediis nigris tenuissimis apud costam dilatatis, fasciola exterior indistincta, linea submarginali conspicua; posticæ fasciola exterior versus marginem interiorem magis determinata nigroque punctata.

Eupithecia constrictata, *Guen. Phal.* ii. 334, 1443.

Eupithecia distinctaria? *Herr.-Sch. Eur. Schm.* iii. 121, 42, pl. 26, f. 162, 163.

England. France? Germany?

54. EUPITHECIA ULTIMARIA.

Cinerea, minima; alæ obscurius limbatae, puncto discali nigro; anticæ elongatae, punctulis tribus costalibus nigris obsoletis signatae.

Eupithecia ultimaria, *Boisd. Ind.* 210, 1704. *Dup. Lep. Sup.* iv. 107, pl. 59, f. 5. *Herr.-Sch. Eur. Schm.* iii. 121, 47, pl. 46, f. 281—283. *Guen. Phal.* ii. 335, 1444.

South France. Italy.

55. EUPITHECIA NANATA.

Fuscescente-cinerea; abdomen albido fasciatum; alæ angustæ, lineis obliquis albidis denticulatis indistinctis fuscescente marginatis, linea submarginali sat conspicua; anticæ productæ, gutta discali nigra transversa.

Geometra nanata, *Hubn. Geom.* pl. 75, f. 387.

Geometra angustata, *Haw. Lep. Brit.* 362.

Larentia nanata, *Treit. Schm.* vi. 2, 136, 41. *Dup. Lep.* v. 481, pl. 204, f. 7. *Frey. Beitr.* pl. 306, f. 1.

Dyscymatoge nanata, *Hubn. Verz. Schm.* 324, 3134.

Eupithecia angustata, *Steph. Ill. Brit. Haust.* iii. 289, 32.

Eupithecia nanata, *Boisd. Ind.* 210, 1706. *Herr.-Sch. Eur. Schm.* iii. 119, 31, pl. 26, f. 160, 162. *Guen. Phal.* ii. 335, 1445, pl. 11, f. 5.

a—o. England. From Mr. Stephens' collection.

p. England. From Mr. Stevens' collection.

q. England. From Mr. Bouchard's collection.

r—t. England.

56. EUPITHECIA TENEBROSARIA.

Cinerea; alæ anticæ lineis nigris duplicatis undique æqualiter notatis, venis nigris albido punctatis.

Eupithecia tenebrosaria, Herr.-Sch. *Eur. Schm.* iii. 120, 35, pl. 25, f. 157. *Guen. Phal.* ii. 336, 1446.

Italy.

Group 9.

57. EUPITHECIA PROLONGATA.

Flavescente-cinerea; alæ anticæ valde lanceolatae, fasciis albis subrectis, 1a 2a antice flexis, 3a furcata lineaque submarginali connexis.

Eupithecia prolongata, Zell. *Isis*, 1846, 198. *Guen. Phal.* ii. 336, 1447.

Geometra extensaria, Frey. *Beitr.* 438.

Eupithecia extensaria, Herr.-Sch. *Eur. Schm.* iii. 122, 56, pl. 21, f. 124, 125.

Livonia. South Russia. Altai.

Group 10.

58. EUPITHECIA SUBNOTATA.

Cervino-cinerea; alæ latiusculæ, lineis cinereis denticulatis indistinctis, linea submarginali sat determinata, linea marginali nigra interrupta; anticæ gutta discali transversa nigricante, linea exterior e punctis venarum nigris elongatis.

Geometra innotata, Hubn. *Geom.* pl. 89, f. 458.

Geometra simpliciata, Haw. *Lep. Brit.* 359.

Larentia innotata, Treit. *Schm.* vi. 2, 109, 23. *Dup. Lep.* v. 473, pl. 204, f. 2.

Dyscymatoge innotata, Hubn. *Verz. Schm.* 324, 3129.

Eupithecia simpliciata, Steph. *Ill. Brit. Haust.* iii. 287, 24.

Larentia scabiosata, Dup. *Lep.* v. 444, pl. 202, f. 3.

Eupithecia denotata, Boisd. *Ind.* 211, 1719.

Eupithecia subnotata, Herr.-Sch. *Eur. Schm.* iii. 124, 70, pl. 29, f. 177. *Guen. Phal.* ii. 337, 1448, pl. 13, f. 9.

a—f. England. From Mr. Stephens' collection.

g. England. From Mr. Bouchard's collection.

h. England.

59. EUPITHECIA SPISSILINEATA.

Alæ lutescente-cinereæ, strigis confertis albidis per venas interruptis, ciliis albo cinereoque alternatis.

Eupithecia spissilineata, Metzner, *Ent. Zeit. Stett.* vii. 241. Frey. *Beitr.* pl. 520, f. 4. Herr.-Sch. *Eur. Schm. Sup.* 77, pl. 73, f. 448. *Guen. Phal.* ii. 338, 1449.

Turkey.

Group 11.

60. EUPITHECIA VULGATA.

Cinereo-cervina; alæ lineis fuscis subobsoletis, linea submarginali albida punctulari, linea marginali nigricante interrupta, venis nonnullis nigricante notatis.

Geometra minutata? Hubn. *Geom.* pl. 45, f. 237.

Geometra valerianata? Hubn. *Geom.* pl. 76, f. 395.

Geometra vulgata, Haw. *Lep. Brit.* 359, 134.

Geometra subfuscata? Haw. *Lep. Brit.* 360.

Larentia valerianata? Treit. *Schm.* vi. 2, 103, 18. Dup. *Lep.* v. 468, pl. 203, f. 7.

Tephroclystia valerianata? Hubn. *Verz. Schm.* 324, 3123.

Tephrosia minutata, Hubn. *Verz. Schm.* 324, 3126.

Eupithecia vulgata, Steph. *Ill. Brit. Haust.* iii. 285, 18. *Guen. Phal.* ii. 338, 1450, pl. 11, f. 6.

Geometra austerata? Frey. *Beitr.* 300, f. 1.

Eupithecia subfuscata, Steph. *Ill. Brit. Haust.* iii. 285, 19.

Eupithecia austerata, Herr.-Sch. *Eur. Schm.* iii. 119, 33, pl. 23, f. 138—140.

Eupithecia pimpinellata, Boisd. *Ind.* 208, 1688.

a—n. England. From Mr. Stephens' collection.

o. England. From Mr. Bouchard's collection.

p—v. England.

61. EUPITHECIA EXPALLIDATA.

Magna, pallidissime testaceo-cinerea, vix rufescente tincta; abdomen annulo lineisque duabus lateralibus nigris; alæ anticæ lanceolatæ, lineis tribus nigris interruptis tenuissimis apud costam dilatatis, 3a punctiformi flexa, litura discali oblonga atra.

Eupithecia expallidata, *Guen. Phal.* ii. 340, 1452.

Eupithecia majoraria?? *Delah. Schm. Sup.* 198, b.

Wales.

62. EUPITHECIA ABSYNTHIATA.

Ferrugineo-cinerea; alæ lineis fuscescentibus denticulatis cinereo marginatis indistinctis; anticæ linea submarginali albida, apud angulum interiorem bene determinata, litura discali transversa atra.

Phalæna-Geometra absynthiata, *Linn. Faun. Suec.* 1296. *Clerck, Icon.* pl. 8, f. 9.

Geometra minutata? *Wien. Verz.* 27.

Geometra absynthiata, *Hubn. Geom.* pl. 88, f. 453. *Haw. Lep. Brit.* 359.

Geometra elongata, *Haw. Lep. Brit.* 358.

Larentia minutata, *Treit. Schm.* vi. 2, 105, 20.

Dyscymatoge absynthiata, *Hubn. Verz. Schm.* 324, 3132.

Eupithecia notata, *Steph. Ill. Brit. Haust.* iii. 286, 22.

Eupithecia elongata, *Steph. Ill. Brit. Haust.* iii. 286, 23.

Eupithecia minutata, *Boisd. Ind.* 211, 1718.

Eupithecia absynthiata, *Herr.-Sch. Eur. Schm.* iii. 120, 40. *Delah. Schm.* 199. *Guen. Phal.* ii. 340, 1453.

a. England.

63. EUPITHECIA MINUTATA.

Cinereo-ferruginea; alæ sericeæ, linea submarginali albida punctulari; anticæ guttis costalibus guttaque discali nigris.

Geometra minutata, *Hubn. Geom.* pl. 88, f. 454.

Larentia minutata, *Treit. Schm.* vi. 2, 105, 20. *Dup. Lep.* v. 470, pl. 203, f. 8.

Tephroclystia minutata, *Hubn. Verz. Schm.* 324, 3126.

Eupithecia innotata, *Steph. Ill. Brit. Haust.* iii. 285, 20.

Eupithecia minutata, *Guen. Phal.* ii. 341, 1454.

a—h. England. From Mr. Stephens' collection.

i. England. From Mr. Bouchard's collection.

j. England. From Mr. King's collection.

k—q. England.

r. Europe. From M. Becker's collection.

64. EUPITHECIA ASSIMILATA.

E. absynthiatæ affinis; *alæ anticæ latiores, minus productæ, apice magis rotundatæ, striga discali atra longissima, lineolis exterioribus quinque aut sex cinereis, linea submarginali alba maculari concisa, macula apud angulum interiorem magna bene determinata.*

Eupithecia assimilata, *Doubleday, MSS. Guen. Phal.* ii. 342, 1455.

a—d. England. From Mr. Stephens' collection.

e. England. From Mr. Bouchard's collection.

Group 12.

65. EUPITHECIA TENUIATA.

Cinerea; *alæ lineis plurimis parallelis denticulatis pallide cinereis, linea submarginali dentata, linea marginali nigricante interrupta, puncto discali nigro; anticæ lineis apud costam dilatatis, puncto discali elongato sat magno.*

Geometra tenuiata? *Hubn. Geom.* f. 394.

Geometra inturbata? *Hubn. Geom.* pl. 90, f. 461.

Larentia inturbata? *Treit. Schm.* vi. 2, 102, 17.

Dyscymatoge innotata, *Hubn. Verz. Schm.* 324, 3129.

Eupithecia subumbrata, *Steph. Ill. Brit. Haust.* iii. 284, 16.

Eupithecia tenuiata, *Herr.-Sch. Eur. Schm.* iii. 119, 34, pl. 27, f. 168, 160. *Guen. Phal.* ii. 343, 1456. }

a, b. Banffshire. From Mr. Stephens' collection.

c. England.

66. EUPITHECIA SUBCILIATA.

E. tenuiatæ statura; *alæ magis elongatæ; antennæ maris ciliis longis munitæ; alæ anticæ pallidissime cinereæ, rufescente-carneo tinctæ, lituris indistinctis, linea exteriori sat conspicua, spatio marginali nigricante interrupto lineam submarginalem*

denticulatam includente, puncto discali indistincto, fimbria intercisa.

Eupithecia subciliata, *Guen. Phal.* ii. 343, 1457.

a, b. England. From Mi. Stevens' collection.

67. *EUPITHECIA DODONEATA.*

E. irriguatæ affinis, minor; abdomen cervino tinctum; alæ concolores; pallidissime albo-cinereæ, lituris confertis viridescente-cinereis, venis pallide rufescentibus, umbris duabus mediis spatioque exteriori nigricante-olivaceis, linea submarginali denticulata, fimbria intercisa.

Geometra subumbrata? *Haw. Lep. Brit.* 361.

Eupithecia dodoneata, *Guen. Phal.* ii. 344, 1458, pl. 11, f. 7.

Belgium. Central France.

a—d. England. Presented by Percy C. Wormald, Esq.

e, f. England. From Mr. Stephens' collection.

g. England.

68. *EUPITHECIA ABBREVIATA.*

Cinereo-fuscescens; alæ lineis cinereis denticulatis indistinctis fusco submarginatis, puncto discali transverso nigricante.

————— ? *Albin, Ins.* pl. 93, f. e, h.

Geometra nebulata? *Haw. Lep. Brit.* 360.

Eupithecia reductaria, *Boisd. Ind.* 209, 1698.

Eupithecia abbreviata, *Steph. Ill. Brit. Haust.* iii. 283, 12. *Guen. Phal.* ii. 345, 1459, pl. 12, f. 7.

Central France.

a—k. England. From Mr. Stephens' collection.

l, m. England. From Mr. Stevens' collection.

n—p. England.

69. *EUPITHECIA EXIGUATA.*

Flavescente-fuscescens; alæ breviusculæ, lineis nonnullis cinereis denticulatis in fascias collocatis, linea submarginali unica; anticæ subobtusæ.

Geometra exigua, *Hubn. Geom.* pl. 73, f. 379. *Frey. Beitr.* ii. pl. 119, f. 1.

Geometra trimaculata, *Haw. Lep. Brit.* 362.

Larentia exigua, *Treit. Schm.* vi. 2, 116, 29. *Dup. Lep.* v. 463, pl. 203, f. 4.

Eupithecia exigua, *Boisd. Ind.* 209, 1697. *Herr.-Sch. Eur. Schm.* iii. 123, 59. *Delah. Schm.* 209. *Guen. Phal.* ii. 345, 1460.

a—j. England. From Mr. Stephens' collection.

k. England. From Mr. Stevens' collection.

l, m. England. From Mr. Bouchard's collection.

n—s. England.

t, v. Europe. From M. Becker's collection.

70. EUPITHECIA HOSPITATA.

Cinereo-cervina; *alæ productæ, linea marginali interrupta nigricante, fimbria longa*; *antica lineis tribus nigricantibus subdentatis, 1a 2aque valde angulatis, 2a extus albido marginata, linea submarginali albida subundulata*; *posticæ pallidiores, lineis indistinctis.*

Geometra succenturiata, *Hubn. Geom.* pl. 45, f. 236.

Larentia hospitata, *Treit. Schm.* vi. 2, 120, 32. *Frey. Beitr.* ii. pl. 119, f. 2.

Dyscymatoge lanceata, *Hubn. Verz. Schm.* 324, 3135.

Eupithecia hospitata, *Boisd. Ind.* 209, 1701. *Herr.-Sch. Eur. Schm.* iii. 118, 22. *Delah. Schm.* 186. *Guen. Phal.* ii. 146, 1461.

Germany. Hungary.

71. EUPITHECIA SOBRINATA.

Fusco-cinerea; *alæ lineis nonnullis cinereis denticulatis, linea marginali nigricante interrupta, fimbria fusco notata*; *antica litura discali transversa bene determinata punctisque nonnullis elongatis apud venas exteriores nigris.*

Geometra sobrinata, *Hubn. Geom.* pl. 90, f. 465. *Frey. Beitr.* i. pl. 90.

Geometra lævigata, *Haw. Lep. Brit.* 362.

Larentia sobrinata, *Treit. Schm.* ii. 112, 25. *Dup. Lep.* v. 477, pl. 204, f. 4. *Eversm. Faun. Volg.-Ural.* 413.

Eupithecia lævigata, *Steph. Ill. Brit. Haust.* iii. 282, 10.

Eupithecia sobrinata, *Boisd. Ind.* 212, 1736. *Herr.-Sch. Eur. Schm.* iii. 118, 25. *Delah. Schm.* 189. *Guen. Phal.* ii. 346, 1462.

Eupithecia expressaria, *Herr.-Sch. Eur. Schm.* iii. 121, 50, pl. 46, f. 284, 285.

- a. England. Presented by E. Jesse, Esq.
 b—j. England. From Mr. Stevens' collection.
 k, l. England. From Mr. Bouchard's collection.
 m, n. England.
 o. Europe. From M. Becker's collection.

72. EUPITHECIA ERICEARIA.

Pulveroso-cinerea ; abdomen punctis lateralibus nigris ; alæ anticæ productæ, punctis venarum elongatis lineisque lituraque apicali nigris ; posticæ puncto discali lineisque apud marginem anteriorem tremulis nigris.

Larentia ericearia, *Ramb. Ann. Soc. Ent. Fr.* ii. 50, pl. 2, f. 14.
 Eupithecia ericearia, *Boisd. Ind.* 211, 1731. *Guen. Phal.* ii. 348, 1463.

Corsica. South France.

73. EUPITHECIA OXYCEDRATA.

E. ericeariæ simillima, minor ; alæ anticæ linea 3a minus recta ; posticæ angustiores, fimbria non intercisa.

Larentia oxycedrata, *Ramb. Ann. Soc. Ent. Fr.* ii. 47, pl. 2, f. 12.
 Eupithecia oxycedrata, *Boisd. Ind.* 212, 1733. *Guen. Phal.* ii. 349, 1464.

Corsica. South France.

74. EUPITHECIA SCOPARIATA.

E. sobrinatæ affinis ; alæ anticæ angustæ, lanceolatæ, puncto discali parvo atro.

Larentia scopariata, *Ramb. Ann. Soc. Ent. Fr.* ii. 49, pl. 2, f. 13.
 Eupithecia scopariata, *Boisd. Ind.* 212, 1734. *Guen. Phal.* ii. 349, 1465.

Corsica.

75. EUPITHECIA PHÆNICEATA.

Rufescente-cinerea ; alæ lineis angulatis lineolisque rufo-nigricantibus.

Larentia phæniceata, *Ramb. Ann. Soc. Ent. Fr.* iii. 392, pl. 8, f. 6.
Boisd. Ind. 212, 1735. *Guen. Phal.* ii. 349, 1466.
 Eupithecia oxycedrata, *Dup. Lep. Sup.* 531, pl. 90, f. 9.

South France.

Group 13.

76. EUPITHECIA STROBILATA.

Cinereo-cervina; alæ angustæ, lineis denticulatis pallide cinereis fusco submarginatis, linea marginali nigricante interrupta; anticæ productæ, acutæ, linea exteriori antica intus nigricante marginata.

———, *Deg. Ins.* ii. 462, pl. 9, f. 10—13.

Geometra strobilata, *Hubn. Geom.* pl. 87, f. 449, 450. *Bork. Eur. Schm.* v. 352, 170.

Larentia strobilata, *Treit. Schm.* ii. 110, 24. *Dup. Lep.* v. 474, pl. 204, f. 3.

Eupithecia strobilata, *Boisd. Ind.* 211, 1723. *Herr.-Sch. Eur. Schm.* iii. 124, 68. *Delah. Schm.* 214. *Guen. Phal.* ii. 350, 1467.

Germany.

a, b. Europe. From M. Becker's collection.

77. EUPITHECIA TOGATA.

Pallide fusca; alæ anticæ lineis undulatis transversis plurimis solitis duabusque bene determinatis nigro-fuscis, macula oblonga transversa obscura discali, fascia undata dentata pallida, linea brevi basali fusca.

Geometra togata, *Hubn. Geom.* pl. 90, f. 464.

Larentia togata, *Treit. Schm.* vi. 2, 157.

Eupithecia togata, *Herr.-Sch. Eur. Schm.* iii. 124, 69. *Newm. Zool.* iii. 1086. *Boisd. Ind.* 211, 1722. *Delah. Schm.* 215. *Guen. Phal.* ii. 350, 1468.

England. Germany.

78. EUPITHECIA LAQUEARIA.

E. strobilatæ valde affinis; antennæ maris ciliis longioribus; alæ angustiores; anticæ magis acutæ, fascia la rufescente recta non arcuata antice flexa, fascia exteriori nigricante magis determinata, linea submarginali sat concisa.

Geometra subumbrata? *Hubn. Geom.* pl. 45, f. 233.

Larentia subumbrata? *Treit. Schm.* vi. 2, 112, 26.

Eupithecia laquearia, *Herr.-Sch. Eur. Schm.* iii. 124, 67, pl. 29, f. 181, 182. *Guen. Phal.* ii. 351, 1469.

Silesia.

Group 14.

79. *EUPITHECIA PUMILATA*.

Cinerea; alæ lineis plurimis subcervinis denticulatis vix conspicuis, puncto discali transverso subcervino.

Geometra pumilata, *Hubn. Geom.* f. 388.

Geometra bistrigata, *Haw. Lep. Brit.* 361.

Geometra rufifasciata, *Haw. Lep. Brit.* 361.

Eupithecia pumilata, *Boisd. Ind.* 210, 1713. *Dup. Sup.* iv. 105, pl. 59, f. 3. *Herr.-Sch. Eur. Schm.* iii. 124, 72, pl. 21, f. 127. *Delah. Schm.* 216. *Guen. Phal.* ii. 351, 1470.

Geometra improbata, *Fisch. Rosl. Schm.* 71.

Eupithecia strobilata, *Steph. Ill. Brit. Haust.* iii. 282, 8.

Eupithecia rufifasciata, *Steph. Ill. Brit. Haust.* iii. 282, 9.

a—o. England. From Mr. Stephens' collection.

p. England. From Mr. Bouchard's collection.

q—w. England.

x. Scotland. From Mr. Dove's collection.

y—aa. Scotland. From Mr. Stephens' collection.

bb—dd. Ireland. From Mr. Bouchard's collection.

80. *EUPITHECIA PAUXILLARIA*.

Pallide cinerea; alæ pulverulentæ; anticæ lanceolatae, fasciis angulato flexis punctoque discali signatæ; posticæ unicolores, immaculatæ.

Eupithecia Pauxillaria, *Boisd. Ind.* 210, 1711. *Dup. Lep. Sup.* iv. 53, pl. 54, f. 11. *Herr.-Sch. Eur. Schm.* iii. 124, 73, pl. 46, f. 278. *Guen. Phal.* ii. 352, 1472.

South France.

81. *EUPITHECIA PARVULARIA*.

E. pumilatæ affinis; alæ anticæ angustiores, magis lanceolatæ.

Eupithecia parvularia, *Herr.-Sch. Eur. Schm.* iii. 124, 71, pl. 30, f. 187. *Guen. Phal.* ii. 353, 1473.

South Europe.

Group 15.

82. EUPITHECIA CORONATA.

Flavescente-viridis; alæ breviusculæ, latiusculæ, linea marginali nigricante interrupta; anticæ lineis pallidioribus denticulatis indistinctis, squamis nonnullis nigris; posticæ cinereæ, lineis fuscescentibus, margine flavescente-viridi.

Geometra coronata, Hubn. *Geom.* pl. 72, f. 372, 373, Frey. *Beitr.* iv. pl. 306, f. 2.

Geometra V-ata, Haw. *Lep. Brit.* 364.

Larentia rectangulata, var., Treit. *Schm.* vi. 2, 98.

Larentia coronata, Eversm. *Faun. Volg.-Ural.* 411.

Eupithecia coronata, Dup. *Lep. Sup.* iv. 103, pl. 59. Herr.-Sch. *Eur. Schm.* iii. 117, 18. Delah. *Schm.* 183. Guen. *Phal.* ii. 353, 1475.

Eupithecia V-ata, Steph. *Ill Brit. Haust.* iii. 281.

Eupithecia rectangulata, var., Boisd. *Ind.* 211, 1724.

a—g. England. From Mr. Stephens' collection.

h. England. From Mr. Bouchard's collection.

i—m. England.

83. EUPITHECIA RECTANGULATA.

Viridis; alæ lineis plurimis nigricantibus subundulatis pallido marginatis, linea submarginali pallida; anticæ plagis costalibus saturatioribus subquadratis, puncto discali nigro.

———, Roës. *Ins.* i. 31, pl. 8, f. 1—3. De Vill. *Ent. Linn.* ii. 352, 545.

Phalæna-Geometra rectangulata, Linn. *Syst. Nat.* i. 2, 872, 270; *Faun. Suec.* 1295. Gmel. ed. *Syst. Nat.* i. 5, 2484, 270. Clerck, *Icon.* pl. 8, f. 6.

Phalæna rectangulata, Fabr. *Sp. Ins.* ii. 264, 129; *Mant. Ins.* ii. 208, 194; *Ent. Syst.* iii. 2, 195, 240.

Geometra rectangulata, Wien. *Verz.* 112, 9. Bork. *Eur. Schm.* v. 356, 172. Ill. N. *Ausg. dess.* i. 449, 9. Mull. *Zool. Dan. Prodr.* 128, 1478. Hubn. *Geom.* pl. 45, f. 235. Haw. *Lep. Brit.* 363.

Geometra subærata, Hubn. *Geom.* f. 463.

Geometra cydoniata, Bork. *Eur. Schm.* v. 334, 171.

Geometra nigrosericeata, Haw. *Lep. Brit.* 363.

Larentia rectangulata, Treit. *Schm.* vi. 2, 97, 14. Dup. *Lep.* v. 460, pl. 203, f. 3.

Larentia cydoniata, Treit. Schm. vi. 2, 101, 16.

Eupithecia rectangulata, Steph. Ill. Brit. Haust. iii. 280, 3. Boisd. Ind. 211, 1724. Herr.-Sch. Eur. Schm. iii. 123, 64. Delah. Schm. 211. Guen. Phal. ii. 364, 1476.

Eupithecia subærata, Steph. Ill. Brit. Haust. iii. 280, 4.

Eupithecia nigrosericeata, Steph. Ill. Brit. Haust. iii. 281, 5.

Eupithecia cydoniata, Boisd. Ind. 211, 1729.

a—s. England. From Mr. Stephens' collection.

t, v. England. From Mr. Stevens' collection.

u, w. England.

x—z. Europe. From M. Becker's collection.

84. EUPITHECIA DEBILIATA.

Cinerea; abdomen nigro punctatum; alæ lineis nonnullis denticulatis fuscescentibus, linea exteriori nigro punctata, spatio marginali fuscescente lineam cineream denticulatam includente; anticæ lineis apud costam dilatatis, puncto discali punctisque interioribus nigricantibus.

Geometra debiliata, Hubn. Geom. pl. 90, f. 466.

Larentia debiliata, Treit. Schm. x. 211.

Eupithecia nigropunctata, Chant, Ent. Mag. i. 184.

Eupithecia debiliata, Boisd. Ind. 211, 1726. Herr.-Sch. Eur. Schm. iii. 123, 65, pl. 45, f. 277. Delah. Schm. 212. Guen. Phal. ii. 156, 1477.

a, b. England. Presented by S. Stevens, Esq.

c—e. England. From Mr. Stephens' collection.

f—h. England. From Mr. Bouchard's collection.

i—m. Ireland. From Mr. Bouchard's collection.

n, o. Europe. From M. Becker's collection.

North America.

The first of the five following species belongs to the eighth European group, and the rest to the eleventh European group.

85. EUPITHECIA SUBAPICATA.

Mas. *Cinerea*; alæ anticæ valde productæ, rufescente fusco suffusæ, puncto discali nigro-cinereo, linea submarginali inter-

rupta apud marginem interiorem lunulata, linea marginali nigra strigis albis intercisa, margine exteriori recto obliquo; posticæ pallide cinereæ, postice retractæ.

Eupithecia subapicata, Guen. *Phal.* ii. 331, 1438.
California.

86. EUPITHECIA COAGULATA.

Mas. *Subrufescente-cinerea, E. absynthiatæ affinis; abdomen basi subannulatum; alæ anticæ puncto discali atro, lituris tribus costalibus nigricantibus, spatio marginali subobscuriore, linea submarginali albido-cinerea interrupta vix conspicua; posticæ puncto discali, lineis duabus parallelis indeterminatis.*

Eupithecia coagulata, Guen. *Phal.* ii. 339, 1451.
Pennsylvania.

87. EUPITHECIA ANTICARIA.

Fœm. *Cinereo-cervina; alæ angustæ, elongatæ, lineis fuscescentibus ex parte denticulatis, punctis marginalibus nigricantibus elongatis; anticæ ex parte cinereæ, litura discali nigricante transversa; posticæ cinereæ, lineis apud marginem exteriorem distinctioribus.*

Female. Cinereous fawn-colour. Palpi short. Abdomen cinereous, with fawn-coloured bands. Wings narrow, elongated, with brownish lines, which are partly denticulated; marginal points blackish, elongated. Fore wings acute, partly cinereous; discal mark blackish, transverse, varying in size; exterior border very oblique. Hind wings cinereous, with the lines most distinct towards the interior border. Length of the body 3 lines; of the wings 10 lines.

a, b. Nova Scotia. From Lieut. Redman's collection.

88. EUPITHECIA IMPLICATA.

Fœm. *Fuscescente-cinerea; alæ lineis plurimis fuscis subundulatis, spatio marginali fuscescente lineam submarginalem denticulatam pallide cineream includente, linea marginale saturate fusca, puncto discali nigricante; posticæ pallidiores.*

Female. Brownish cinereous. Palpi shorter than the breadth of the head. Wings narrow, elongate, with many brown slightly undulating lines; marginal space brownish, including the pale

cinereous denticulated submarginal line; marginal line dark brown; discal point blackish, most distinct in the hind wings. Fore wings slightly acute; exterior border very oblique. Hind wings somewhat paler than the fore wings, except towards the exterior border. Length of the body 3 lines; of the wings 10 lines.

a, b. St. Martiu's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

c—h. Nova Scotia. From Lieut. Redman's collection.

89. EUPITHECIA EXPLANATA.

Fœm. *Cinerea; alæ angustæ, elongatæ, lunulis marginalibus nigris elongatis; anticæ cervinæ, lineis nonnullis fuscis subundulatis, fasciis lineaque submarginali denticulata albidis, litura discali nigra transversa sat magna.*

Female. Cinereous. Palpi short. Abdomen slightly crested. Wings narrow, elongate, with elongated black marginal lunules. Fore wings acute, fawn-colour, with several brown slightly undulating lines, and with two slight whitish bands; submarginal line whitish, denticulated; discal mark black, transverse, rather large; exterior border very oblique. Length of the body 3 lines; of the wings 10 lines.

a—d. Nova Scotia. From Lieut. Redman's collection.

Africa.

90. EUPITHECIA? CIDARIATA.

Fœm. *Pallide viridis; alæ latæ; anticæ spatio medio ex parte nigro, linea 1a recta, 2a flexa, lineis apud marginem exteriorem plurimis, litura apicali pallida obliqua subtus nigro marginata; posticæ pallide cinereæ, bilineatæ.*

Eupithecia? cidariata, Guen. Phal. ii. 357, 1479, pl. 11, f. 9.

Cape.

91. EUPITHECIA INCONCLUSARIA.

Fœm. *Pallide testaceo-cinerea, lineis nonnullis denticulatis cervinis, spatio marginali cervino lineam submarginalem denticulatam pallide cineream includente, lunulis marginalibus elongatis nigricantibus; anticæ acutæ, valde elongatæ, puncto discali parvo transverso nigricante.*

Female. Pale testaceous-cinereous. Palpi porrect, much shorter than the breadth of the head. Wings narrow, with several more or less distinct denticulated fawn-coloured lines; marginal space of the latter hue, including a pale cinereous denticulated submarginal line; marginal lunules elongated, blackish. Fore wings acute, much elongated; discal point minute, blackish, transverse; exterior border very oblique. Length of the body 4 lines; of the wings 12 lines.

a. South Africa. Presented by Sir A. Smith.

Asia.

The first of the following species belongs to the eighth European group, and the other three are quite distinct from any of the preceding divisions.

92. EUPITHECIA RAJATA.

Mas. *Ligneo-fusca, E. pimpinellatæ valde affinis; antennæ ciliatæ; alæ anticæ fasciis duabus pallidis remotis obliquis costam versus angulatis e lineis duabus punctatis intercisis, linea submarginali tenuissima dentata, puncto discali magno atro, strigis costalibus nigris; posticæ puncto lineaque discalibus contiguis.*

Eupithecia Rajata, Guen. Phal. ii. 328, 1432.

Hindostan.

93. EUPITHECIA ADMIXTARIA.

Fœm. *Pallide cinerea; abdomen basi nigro fasciatum; alæ breviusculæ, lineis diffusis denticulatis fuscis, lineis interiore et exteriori nigris diffusis incompletis, spatio marginali fuscescente lineam submarginalem albidam denticulatam nigricante punctatam includente, linea marginali nigricante interrupta; anticæ apice rotundatæ, puncto costali basali nigro.*

Female. Pale cinereous. Palpi much shorter than the breadth of the head. Abdomen with a black band near the base. Wings comparatively short, with some diffuse denticulated brown lines; interior and exterior lines black, diffuse, irregular, incomplete; marginal space brownish, including the whitish denticulated submarginal line, which is accompanied by some diffuse blackish points; marginal line blackish, interrupted. Fore wings rounded at the tips, with a black costal point near the base; exterior border

convex, moderately oblique. Length of the body 3 lines; of the wings 10 lines.

a. Colombo, Ceylon. From M. Dohrn's collection.

94. EUPITHECIA IMMIXTARIA.

Fœm. *Pallide schistaceo-cinerea; alæ angustæ, lineis subobsoletis, lineis interiore et exterior nigris sat conspicuis, punctis marginalibus nigris; anticæ apice subrotundatæ, linea 1a punctulari, 2a postice attenuata et retracta.*

Female. Pale slaty cinereous. Palpi not longer than half the breadth of the head. Wings narrow, with the lines almost obsolete, excepting the interior and exterior lines, which are black and are most distinct on the under side; marginal points black. Fore wings slightly rounded at the tips; interior line composed of points; exterior line attenuated and much retracted hindward; exterior border very oblique. Hind wings short; interior line obsolete; exterior line slight, deeply angular. Length of the body $2\frac{1}{2}$ lines; of the wings 8 lines.

a, b. Colombo, Ceylon. From M. Dohrn's collection.

95. EUPITHECIA RECENSITARIA.

Fœm. *Cinerea; alæ sat angustæ, lineis nonnullis denticulatis fuscis, lineis tribus undulatis pallide cinereis, squamis nonnullis nigris, linea marginali nigra interrupta; anticæ vix acutæ, margine exterior perobliquo.*

Female. Cinereous. Palpi not longer than half the breadth of the head. Wings rather narrow, with several brown denticulated lines, and with three pale cinereous undulating lines, which are accompanied by black speckles; some of these also appear on other parts of the wings; marginal line black, interrupted. Fore wings hardly acute; exterior border very oblique. Length of the body $2\frac{1}{2}$ lines; of the wings 8 lines.

a—f. Colombo, Ceylon. From M. Dohrn's collection.

Australia.

The two following species belong to the 14th European group, and the third will form a new division in the genus.

96. EUPITHECIA TESTULATA.

Fœm. *E. pumilatæ valde affinis, major; alæ anticæ linearum dentibus majoribus magis dentatis, lineis duabus mediis magis approximatis, linea exteriori magis angulata; posticæ linea media rectiore.*

Eupithecia testulata, Guen. *Phal.* ii. 352, 1471.

Australia.

97. EMMELESIA FILATA.

Mas. *Rufescente-testacea; abdomen e punctis nigris trilineatum; alæ fasciola subpallidiore lineolam obscuriorem includente; anticæ lineis interiore et submarginali subpallidioribus indistinctis, macula exteriori quadrata obscura, punctis interioribus apud venas nigris; posticæ linea interiore nigra.*

Eupithecia filata, Guen. *Phal.* ii. 353, 1474.

Australia.

98. EUPITHECIA INSIGILLATA.

Fœm. *Pallide cinerea; caput antice nigricans; alæ elongatæ, vix angustæ, lineis plurimis cinereis denticulatis indistinctis, lineis interiore et exteriori nigris punctularibus, spatio marginali cinereo lineam submarginalem albidam denticulatam includente; anticæ acutæ, lituris costalibus nigris.*

Female. Pale cinereous. Head blackish in front. Wings elongate, hardly narrow, with many indistinct cinereous denticulated lines; interior and exterior line formed by black points on the veins; marginal space cinereous, including the whitish denticulated submarginal line; marginal line black, interrupted. Fore wings acute, with black marks along the whole length; exterior border slightly convex, very oblique. Length of the body 3 lines; of the wings 10 lines.

a. Australia. From Mr. Damel's collection.

New Zealand.

The two following species differ much from each other and from the typical groups of *Eupithecia*, and hardly belong to that genus.

99. EUPITHECIA? BILINEOLATA.

Fœm. *Viridescence-cinerea; palpi longi, oblique ascendentes; thorax nigro quadripunctatus; abdomen nigricante fasciatum; alæ latiusculæ, lineis nonnullis fuscis denticulatis ex parte nigro punctatis et nebulosis, linea submarginali albida angulosa, punctis marginalibus nigris elongatis; anticæ basi cervino tinctæ, puncto discali nigro; posticæ rufescente-cinereæ.*

Female. Greenish cinereous. Palpi obliquely ascending, as long as the breadth of the head. Thorax with two black points on each side. Abdomen slightly crested, with a broad blackish band near the base. Wings rather broad, with several brown denticulated lines, some of which, and especially in the fore wings, are clouded or pointed with black; submarginal line whitish, zigzag; marginal points black, elongated. Fore wings slightly acute, with a fawn-coloured tinge at the base, and with a black discal point. Hind wings reddish cinereous. Length of the body 4 lines; of the wings 12 lines.

a. Auckland, New Zealand. From Mr. Oxley's collection.

100. EUPITHECIA? MUSCOSATA.

Mas. *Viridis; palpi longiusculi; antennæ subpectinatae; alæ latiusculæ, lineis nonnullis denticulatis nigricantibus, linea submarginali angulosa pallide cinerea, fimbria nigro punctata; anticæ lineis duabus indistinctis pallidioribus, nebula submarginali nigra; posticæ rufescente-cinereæ.*

Male. Grass-green. Palpi porrect, shorter than the breadth of the head. Antennæ slightly pectinated. Wings rather broad, with several denticulated blackish lines, which are most distinct and regular in the hind wings and are most conspicuous on the veins; submarginal line pale cinereous, zigzag; marginal line black, slender; fringe with black points. Fore wings hardly acute, with two indistinct paler bands, which are remote from each other; a black cloud between the second band and the submarginal line; exterior border convex, moderately oblique. Hind wings reddish cinereous. Length of the body 4 lines; of the wings 12 lines.

This species has some affinity to *Larentia*.

a. Auckland, New Zealand. From Mr. Oxley's collection.

Country unknown.

The following species is distinguished from all the preceding divisions by the great length of the palpi.

101. EUPITHECIA ROSTRATA.

Viridis; palpi longi, rostriformes, articulo 3o conico longissimo; alæ linea submarginali pallida; anticæ lineis quatuor nigris subparallelis, 4a maculari, puncto discali atro, puncto interiore atro apud marginem interiorem.

Eupithecia rostrata, *Guen. Phal.* ii. 356, 1478, pl. 11, f. 8.

Genus 7. COLLIX.

Corpus robustum. Proboscis gracilis. Palpi porrecti, graciles, rostriformes, filiformes, caput longe superantes; articulus 3us brevis, obtusus. Antennæ filiformes, maris velutinæ. Abdomen alas posticas longe superans, fœm. oblongo-ovatum. Tibiæ posticæ femoribus vix longiores, calcaribus quatuor longis approximatis. Alæ concolores, lituris non diversis; anticæ oblongæ, apices versus dilatatæ, fasciculo discali squamoso; posticæ margine exteriori valde dentato.

Collix, *Guen. Phal.* ii. 357.

Larentia, p., *Treit.*; *Dup.*; *Herr.-Sch.*

Scotosia, p., *Steph.*

Eupithecia, p., *Boisd.*

Body robust. Proboscis slender. Palpi porrect, slender, conniving, forming a filiform rostrum, extending much beyond the head; third joint short, obtuse. Antennæ filiform, velvety in the male. Abdomen extending beyond the hind wings, ovate-oblong in the female. Hind tibiæ hardly longer than the hind femora; spurs long, approximate. Wings alike in colour and with like markings. Fore wings oblong, widened at the tips, with an elevated tuft of scales in the disk. Hind wings with the exterior border deeply and acutely dentate.

1. COLLIX SPARSATA.

Fusco-cinerea ; palpi breves, articulo 3o minimo ; alæ lineis fuscis denticulatis indistinctis, linea exterior duplicata lineaque submarginali cinereis, venis nigro punctatis, linea marginali nigra interrupta ; anticæ puncto discali nigro.

Geometra sparsata, Hubn. *Geom.* pl. 77, f. 398.

Larentia sparsata, Treit. *Schm.* vi. 2, 133, 39. Dup. *Lep.* v. 456, pl. 203, f. 1. Herr.-Sch. *Eur. Schm.* iii. 142, 74.

Scotosia sparsaria, Steph. *Ill. Brit. Haust.* iii. 261, 3.

Eupithecia sparsaria, Boisd. *Ind.* 208, 1685.

Larentia melanoparia ? De Graslin, *Ann. Soc. Ent. Fr.* 2me Sér. vi. 62, 2, pl. 1, No. 1. f. 7, 8.

Collix ? *sparsata*, Guen. *Phal.* ii. 358, 1480.

a. England. Presented by F. Bond, Esq.

b. England. From Mr. Stephens' collection.

c. England. From Mr. King's collection.

d. England.

2. COLLIX FORAMINATA.

Fœm. *Cinereo-fusca* ; palpi capitis latitudine longiores, articulo 3o longi-conico ; alæ lineis indistinctis obscurioribus, subtus pallide cinereæ gutta discali nigra fasciisque duabus exterioribus fuscis ; anticæ lunula discali atra.

Collix foraminata, Guen. *Phal.* ii. 358, 1482.

a. South Africa. Presented by Sir A. Smith.

3. COLLIX HYOSPILATA.

Fœm. *Ferrugineo-fusca* ; alæ lineis punctularibus nigricantibus et cervinis, subtus pallidiores gutta discali lineaque submarginali guttulari atris fasciisque intermedia fusca ; anticæ gutta discali atra.

Collix hyospilata, Guen. *Phal.* ii. 358, 1481.

Lobophora Salisuca, Walk. *List Ceylon Ins.*

a, b. Ceylon. Presented by Dr. Templeton.

c. Ceylon. From Mr. Stevens' collection.

4. COLLIX GHOSHA.

Fœm. *Ferrugineo-fusca*; *alæ lineis plurimis nigricantibus indistinctis denticulatis, lineis exteriori et submarginali e punctis pallide cervinis, gutta discali atra transversa elongata pallido marginata, subtus pallide cinereæ macula discali fascisque duabus exterioribus (1a maculari, 2a subintegra) nigris.*

Lobophora Ghosha, Walk. List. Ceylon Ins.

Female. Ferruginous-brown. Wings with many blackish indistinct denticulated lines; exterior and submarginal lines composed of pale fawn-coloured points, the former more distinct than the latter and somewhat dilated and retracted towards the costa of the fore wings; discal dot elongated, transverse, deep black, pale-bordered, much larger in the fore wings than in the hind wings; under side pale cinereous, with a black discal spot and with two exterior black bands, of which the first is macular and the second nearly complete. Length of the body $4\frac{1}{2}$ lines; of the wings 14 lines.

This species may be distinguished from the preceding one by its much smaller size, by the difference in the under side of the wings, and by the discal dot on the hind wings.

a. Ceylon. Presented by Dr. Templeton.

5. COLLIX? CONTRIBUTARIA.

Mas. *Cinereo-fusca*; *palpi brevissimi; antennæ validæ, convolutæ; alæ angustæ, lineis interiore et exteriori nigris undulatis subdenticulatis, linea submarginali pallida denticulata subobsoleta; anticæ apice rotundatæ, margine exteriori perobliquo.*

Male. Cinereous-brown, more cinereous beneath. Vertex flat. Palpi very short. Antennæ stout, convoluted, about half the length of the body. Abdomen extending very little beyond the hind wings. Legs bare, rather slender; spurs long. Wings narrow; interior and exterior lines black, undulating, slightly denticulated; submarginal line pale, denticulated, almost obsolete. Fore wings rounded at the tips; exterior border extremely oblique. Length of the body $3\frac{1}{2}$ lines; of the wings 9 lines.

Ceylon. In Mr. Layard's collection.

Genus 8. LEPIODES.

Corpus sat robustum. Proboscis brevis. Palpi squamosi, porrecti aut incumbentes, caput paullo superantes; articulus 3us brevissimus. Antennæ maris late pectinatæ aut fasciculato ciliatæ. Thorax brevis, rotundatus. Abdomen apice acutum. Pedes longiusculi; tibiæ posticæ calcaribus quatuor longissimis. Alæ integræ, oblongæ, squamosæ, sat densæ; anticæ fasciculo discali squamoso. *Lepiodes*, *Guen. Phal.* ii. 359.

Body rather stout. Proboscis short. Palpi squamous, porrect or incumbent, not extending much beyond the head; third joint extremely short. Antennæ of the male deeply pectinated or with tufts of ciliæ. Thorax short, rounded. Abdomen acute at the tip in both sexes. Legs rather long; hind tibiæ with four very long spurs. Wings entire, oblong, squamous, rather stout. Fore wings with a tuft of elevated scales in the disk.

1. LEPIODES SCOLOPACINARIA.

Mas.—*Rufescente-fusca; palpi recti, rostriformes; alæ puncto discali e squamis nigris, margine sat lato plumbeo-nigro squamis albidis consperso, punctis marginalibus nigris; posticæ linea exteriori nigricante subundulata.* Fœm.—*Major, pallide flavescens-testacea, lineis interiore et exteriori punctularibus, umbra media fusca; umbra exteriori ferrugineo-fusca; abdomen e punctis bilineatum.*

Lepiodes scolopacinaria, *Guen. Phal.* ii. 360, 1484.

United States.

2. LEPIODES INFECTARIA.

Cinereo-fusca; alæ punctis marginalibus nigris elongatis, fimbria albido punctata; anticæ gutta discali nigra albido marginata, lineis duabus interioribus unaque exteriori, venis nigris albido punctatis; posticæ pallidiores.

Lepiodes infectaria, *Guen. Phal.* ii. 359, 1483, pl. 22, f. 7.

a. South Africa. Presented by Sir A. Smith.

Genus 9. RHOPALODES.

Fœm. Corpus sat robustum. Frons plana. Proboscis longiuscula. Palpi filiformes, porrecti, apice contigui. Antennæ glabræ, apices versus crassiores, apice acutæ. Tibiæ posticæ bicalcaratæ. Alæ integræ; anticæ amplæ, apices versus productæ, lineis distinctis; posticæ breves.

Rhopalodes, *Guen. Phal.* ii. 360.

Female. Body rather stout. Front flat. Proboscis rather long. Palpi filiform, porrect, conniving or even crossing at the tips. Antennæ smooth, thickening from the base to the tips, which are acute. Hind tibiæ with only one pair of spurs. Wings entire. Fore wings ample, prolonged at the tips, with distinct lines. Hind wings comparatively short; interior angle rounded.

1. RHOPALODES CASTNIATA.

Fœm. Albida; alæ anticæ argillaceo-fusco nigroque variæ, lineis tribus flexis denticulatis subparallelis lunulaque nigris, fimbria nigro notata; posticæ albæ, umbra submarginali cinerea.

Rhopalodes castniata, *Guen. Phal.* ii. 361, 1485, pl. 20, f. 2.

Brazil.

Genus 10. SAURIS.

Corpus gracile. Proboscis sat longa. Frons plana, angusta. Oculi magni. Palpi porrecti, contigui, capite triplo longiores; articulus 3us nudus subulatus. Antennæ longæ, validæ, squamosæ. Pedes longissimi, gracillimi; tibiæ posticæ bicalcaratæ. Alæ anticæ peroblongæ, virides, fusco fasciatæ; posticæ brevissimæ, rotundatæ. Sauris, *Guen. Phal.* ii. 361.

Body slender. Proboscis moderately long. Front flat, narrow. Eyes large. Palpi porrect, contiguous, thrice longer than the head; third joint bare, subulate. Antennæ long, stout, thickly covered with scales to three-fourths of the length. Legs very long, very slender; hind tibiæ with only one pair of spurs. Fore wings almond-shaped, very oblong, green, with brown bands. Hind wings rounded, very short, without markings.

1. SAURIS HIRUDINATA.

Lutescente-viridis; alæ anticæ fasciis lineisque nigro-fuscis et albido-cinereis; posticæ cinereæ.

Sauris hirudinata, Guen. *Phal.* ii. 362, 1486.

The specimens here mentioned do not agree well with Guenée's description of *S. hirudinata*.

a. Ceylon. Presented by Dr. Templeton.

2. SAURIS PROBOSCIDARIA.

Fœm. Luteo-viridis; palpi longissimi; caput postice albo binotatum; antennæ nigræ; alæ anticæ lineis saturatioribus lineisque nonnullis nigris denticulatis, guttis marginalibus nigris duplicatis; posticæ fuscescente-cinereæ.

Female. Luteous-green. Palpi longer than those of *S. hirudinata*. Head with a white mark on each side hindward. Antennæ black. Fore wings with some deeper green denticulated lines; four denticulated black lines, of which the first is near the base, the second is interior and is dilated on the costa, the third is exterior and triple, and the fourth is partly dilated; a double row of marginal black dots; under side and hind wings brownish cinereous. Length of the body 6 lines; of the wings 18 lines.

a. Ceylon. Presented by Dr. Templeton.

Var.? *Paler.* The specimen here noticed is too much defaced for description, but it hardly seems to differ from the Ceylon insect.

b. South Africa. Presented by Sir A. Smith.

3. SAURIS NIGRIPALPATA.

Fœm. Sordide luteo-viridis; palpi nigri, longissimi; alæ anticæ linea basali fasciisque duabus e lineis undatis dentatis nigris, linea submarginali denticulata guttisque marginalibus strigisque discali obliqua nigris; posticæ fuscescente-cinereæ.

Female. Dull luteous-green. Palpi black, as long as those of *S. proboscidaria*. Fore wings with two broad black bands, each composed of five or six undulating and dentate black lines; a black basal line, a denticulated black submarginal line, and a row of black

marginal dots; discal streak black, oblique, between the bands; under side and hind wings brownish cinereous. Length of the body 7 lines; of the wings 18 lines.

a. Ceylon. Presented by Dr. Templeton.

4. SAURIS REMODESARIA.

Mas. *Sordide viridescens; palpi breviores; alæ anticæ lineis nigricantibus undulatis aut angulosis ex parte fascias cinereas includentibus, strigis exterioribus lanceolatis punctoque discali guttisque marginalibus nigris, guttis submarginalibus nigricantibus diffusis; posticæ pallide cinereæ, postice contractæ et lobatæ.*

Male. Dull pale green. Palpi shorter than those of the two preceding species. Fore wings with blackish undulating or zigzag lines, which, where they are approximate and form bands, have pale cinereous spaces between them; first band composed of two lines; second band with four lines; some more exterior lanceolate black streaks; submarginal dots blackish, diffuse; marginal dots and discal point black; some indistinct dark green denticulated lines. Hind wings pale cinereous, much contracted hindward, where they form a large cupreous-cinereous lobe; two small lobes at the base of the interior border. Length of the body 7 lines; of the wings 16 lines.

This may be the male of *S. proboscidaria*. It much resembles *Remodes abortivata* in the structure of the hind wings and in general aspect, but the hind tibiæ of the latter genus have no spurs.

a—c. Colombo, Ceylon. From M. Dohrn's collection.

Var. β. Fore wings with all the lines deep green, not blackish, except along the costa.

d. Sydney. From Mr. Lambert's collection.

Genus 11. REMODES.

Mas. Corpus gacile. Oculi magni. Palpi porrecti, graciles. compressi, contigui, capite triplo longiores; articulus 3us linearis, Antennæ simplices, appressæ, squamosæ. Pedes longi, graciles; tibiæ posticæ fasciculo denso, non calcaratæ; tarsi postici arcuati, dense pilosi. Alæ anticæ elongatæ, acutæ, costa recta, margine exterioriore convexo postice truncato; posticæ minimæ.

Remodes, Guen. Phal. ii. 362.

Male. Body slender. Eyes large. Palpi porrect, slender, compressed, contiguous, thrice longer than the head; third joint slender, linear. Antennæ simple, flattened, covered with smooth scales. Legs long, slender; hind tibiæ without spurs, but with a compact tuft of hairs; hind tarsi curved, densely pilose. Fore wings elongate, acute; costa straight; exterior border convex, somewhat truncated hindward. Hind wings very small.

1. REMODES ABORTIVATA.

Flavescente-viridescens; alæ anticæ lineis plurimis saturatioribus duabusque nigricantibus, punctis marginalibus nigris; posticæ cinereæ, disco fimbria loboque obscurioribus.

Remodes abortivata, Guen. Phal. ii. 364, 1487, pl. 21, f. 9.

Borneo.

Genus 12. LOBOPHORA.

Corpus gracile. Proboscis brevis. Palpi squamosi, sæpe rostriformes et acuti; articulus 3us brevis. Antennæ simplices, glabræ. Abdomen longum, maris apice quadratum. Pedes læves, sat graciles; tibiæ posticæ calcaribus quatuor longis. Alæ integræ, fimbria longa; anticæ amplæ, apice productæ, lineis transversis plurimis duplicatis; posticæ angustæ, breves discolores.

Acidalia, p., Treit. Larentia, p., Treit. Chesias, p., Treit.

Trichopteryx, Hubn. Verz. Schm. 323.

Oporinia, p., Hubn. Verz. Schm. 321.

Amathia, Dup.

Lobophora, Curt. Brit. Ent. ii. 81; Steph.; Boisd.; Herr.-Sch.; Guen. Phal. ii. 304.

Cidaria, p., Boisd.

Body slender. Proboscis short. Palpi squamous, often rostriform and acute; third joint short. Antennæ simple and smooth. in both sexes. Abdomen long, quadrate at the tip in the male. Legs smooth, rather slender; hind tibiæ with four long spurs. Wings entire; fringe long. Fore wings ample, prolonged at the tips; transverse lines often numerous and double. Hind wings narrow, small, differing in colour from the fore wings.

Europe.

1. LOBOPHORA EXTERNARIA.

Fuscescente-cinerea ; alæ anticæ fascia interiore alba, fascia media nigro-fusca antice dilatata et pallidior, spatio exteriori ex parte subcarneo lineam submarginalem albam denticulatam postice obsoletam includente ; posticæ cinereæ, linea media punctulari lunulisque marginalibus nigris, lineis duabus exterioribus albis.

Lobophora externaria, Herr.-Sch. Eur. Schm. vi. 180, 216, pl. 1, f. 1, 2. Guen. Phal. ii. 366, 1488.

Anatolia.

2. LOBOPHORA SEXALATA.

Cinerea ; alæ conspersæ, gutta discali nigra ; anticæ fasciis tribus indistinctis interlineatis lineaque submarginali denticulata albidis ; posticæ pallidiores, non lineatæ.

———, Deg. Ins. ii. 459, pl. 9, f. 10—12. De Vill. Ent. Linn. ii. 378, 614.

Geometra sexalisata, Hubn. Beitr. iii. pl. 2, f. L. ; Geom. pl. 44, f. 228.

Geometra sexalata, Bork. Eur. Schm. v. 304, 138. Haw. Lep. Brit. 356. Frey. Beitr. i. pl. 6.

Acidalia sexalata, Treit. Schm. vi. 2, 40, 26.

Amathia sexalata, Dup. Lep. v. 491, pl. 205, f. 3.

Trichopteryx sexalata, Hubn. Verz. Schm. 323, 3113.

Lobophora sexalisata, Steph. Ill. Brit. Haust. iii. 278, 7. Boisd. Ind. 207, 1677. Herr.-Sch. Eur. Schm. iii. 180, 215. Delah. Schm. 326. Guen. Phal. ii. 367, 1489.

a—e. England. From Mr. Stephens' collection.

f—j. England.

k, l. Europe. From M. Becker's collection.

3. LOBOPHORA HEXAPTERATA.

Cinerea ; alæ albido-cinereæ, vix lineatæ, linea marginali fusca interrupta ; anticæ fasciis duabus obscure cinereis, 1a basali, 2a submarginali lineam submarginalem pallidam denticulatam submarginalem includente, puncto discali nigro ; posticæ albido-cinereæ, cinereo marginatæ.

———, *Lyon. Ins.* 270, pl. 27, f. 1—6. *DeVill. Ent. Linn.* iv. 508.

Geometra hexapterata, *Kleem, Beitr.* 169, pl. 19, f. a, b. *Wien. Verz.* 109, 10. *Brahm, Ins. Kal.* ii. 1, 284, 176. *Bork. Eur. Schm.* v. 302, 137. *Donov. Brit. Ins.* vi. pl. 192. *Hubn. Geom.* pl. 44, f. 232. *Haw. Lep. Brit.* 356.

Geometra zonata, *Bork. Eur. Schm.* v. 139.

Phalæna hexapterata, *Fabr. Ent. Syst.* iii. 193, 233.

Acidalia hexapterata, *Treit. Schm.* vi. 2, 38, 25.

Trichopteryx hexapterata, *Hubn. Verz. Schm.* 323, 3112.

Amasia hexapterata, *Dup. Lep.* v. 488, pl. 205, f. 1, 2.

Lobophora hexapterata, *Steph. Ill. Brit. Haust.* iii. 278, 6. *Boisd. Ind.* 207, 1676. *Herr.-Sch. Eur. Schm.* iii. 180, 214, pl. 40, f. 245. *Delah. Schm.* 325. *Guen. Phal.* ii. 367, 1490.

a—i. England. From Mr. Stephens' collection.

j—q. England.

r—v. Europe. From M. Becker's collection.

4. LOBOPHORA VIRETATA.

Lutescente-viridis ; alæ anticæ lineis denticulatis aut punctularibus punctisque marginalibus nigris, plagis duabus discalibus nigro-cinereis ; posticæ cinereæ.

Geometra viretata, *Hubn. Geom.* pl. 44, f. 230. *Haw. Lep. Brit.* 329.

Geometra trinotata, *Donov. Brit. Ins.* xiv. pl. 499, f. 1.

Acidalia viretata, *Treit. Schm.* vi. 2, 51, 35.

Acasis viretata, *Dup. Lep.* v. 422, pl. 200, f. 4.

Trichopteryx viretata, *Hubn. Verz. Schm.* 323, 3114.

Lobophora viretata, *Steph. Ill. Brit. Haust.* iii. 278, 5. *Herr.-Sch. Eur. Schm.* iii. 179, 212. *Delah. Schm.* 323. *Guen. Phal.* ii. 368, 1491.

Cidaria viretata, *Boisd. Ind.* 215, 1773.

a—c. England. From Mr. Stephens' collection.

d—h. England.

5. LOBOPHORA APPENSATA.

Fuscescente-cinerea ; alæ anticæ fasciis quinque fuscis, 4a lata, fascia exteriori albida nigro punctata, spatio marginali albedo lineam fuscam punctaque submarginalia nigra includente, striga discali nigra ; posticæ cinereæ, puncto discali lineaque exteriori nigricantibus, punctis marginalibus nigris.

Lobophora appensata, *Eversm. Bull. Soc. Imp. Nat. Mosc.* 1842, No. 3; *Faun. Volg.-Ural.* 404. *Herr.-Sch. Eur. Schm.* iii. 179, 211, pl. 63, f. 386. *Guen. Phal.* ii. 368, 1492.

South Russia.

6. LOBOPHORA LOBULATA.

Cinereo-albida; *alæ punctis marginalibus nigris*; *anticæ punctis nonnullis venarum nigris, lineis indistinctis aut subobsoletis fuscescentibus apud costam nigricantibus bene determinatis*; *posticæ linea submarginali denticulata indistincta.*

Geometra lobulata, *Hubn. Geom.* pl. 70, f. 362.

Geometra dentistrigata, *Haw. Lep. Brit.* 320.

Geometra costæstrigata, *Haw. Lep. Brit.* 319.

Acidalia lobulata, *Treit. Schm.* vi. 2, 29, 17.

Trichopteryx lobulata, *Hubn. Verz. Schm.* 323, 3111.

Acasis lobulata, *Dup. Lep.* v. 493, pl. 205, f. 4.

Amathia lobulata, *Dup. Lep.* v. 493, pl. 205, f. 4.

Lobophora lobulata, *Boisd. Ind.* 207, 1675. *Herr.-Sch. Eur. Schm.* iii. 179, 210. *Delah. Schm.* 322. *Guen. Phal.* ii. 369, 1493.

Lobophora costæstrigata, *Steph. Ill. Brit. Haust.* iii. 277, 3.

Lobophora rupestrata, *Steph. Ill. Brit. Haust.* iii. 277, 4.

a—w. England. From Mr. Stephens' collection.

x—dd. England.

ee, ff. Europe. From M. Becker's collection.

7. LOBOPHARA SERTATA.

Albido-cinerea (mas) *aut cinerea* (fœm.); *alæ anticæ lineis fuscis nigrisque denticulatis, puncto elongato discali punctisque marginalibus nigris, venis exterioribus albo punctatis*; *posticæ cinereæ, fascia pallidiore.* Mas.—*Alæ anticæ ferrugineo bifasciatae.*

Geometra sertata, *Hubn. Geom.* pl. 95, f. 489.

Larentia sertata, *Treit. Schm.* vi. 2, 90, 9.

Oporinia sertata, *Hubn. Verz. Schm.* 322, 3101.

Amathia sertata, *Dup. Lep.* v. 495, pl. 205, f. 5, 6.

Lobophora appendicularia, *Boisd. Ind.* 207, 1673. *Herr.-Sch. Eur. Schm.* iii. 178, 208, pl. 60, f. 368, 369. *Delah. Schm.* 320.

Lobophora sertata, *Guen. Phal.* ii. 369, 1494.

France. Germany. Switzerland.

8. LOBOPHORA SABINATA.

Ferrugineo-fusca; alæ anticæ venis nigro strigatis, lineis duabus albidis flexis antice remotis strigam nigram apud marginem interiorem includentibus.

Geometra sabinata, Hubn. *Geom.* pl. 106, f. 550, 551.

Chesias sabinata, Treit. *Schm. Sup.* 2, 193.

Amathia sabinata, Dup. *Lep. Sup.* 610, pl. 50, f. 5.

Lobophora sabinata, Boisd. *Ind.* 212, 1737. *Herr.-Sch. Eur. Schm.* iii. 179, 213. *Delah. Schm.* 324. *Guen. Phal.* ii. 369, 1495.

Switzerland.

9. LOBOPHORA POLYCOMMATA.

Fusco-cinerea; alæ anticæ striga angulata basali fasciaque obliqua antice furcata spatioque marginali lineam submarginalem denticulatam cineream includente fuscis, punctis marginalibus nigris; posticæ pallidiores, linea marginali fusca.

Geometra polycommata, Wien. *Verz.* 109, 8. *Ill. N. Ausg. dess.* i. 435, 8. Hubn. *Geom.* pl. 36, f. 190.

Geometra hyemata, Bork. *Eur. Schm.* v. 140.

Chesias polycommata, Treit. *Schm.* vi. 1, 333, 2.

Amathia polycommata, Dup. *Lep.* v. 513, pl. 206, f. 7.

Lobophora polycommata, Curt. *Brit. Ent.* pl. 81. *Steph. Ill. Brit. Haust.* iii. 276, 1. Boisd. *Ind.* 207, 1674. *Herr.-Sch. Eur. Schm.* iii. 179, 209. *Delah. Schm.* 321. *Guen. Phal.* ii. 370, 1496.

a—d. England. Presented by W. F. Walcott, Esq.

e. England. Presented by Edwin Shepherd, Esq.

f—k. England. From Mr. Stephens' collection.

l—n. Europe. From M. Becker's collection.

North America.

10. LOBOPHORA FUSIFASCIATA.

Mas et fœm. *Albida; pedes antice fusco fasciati; alæ anticæ lineis duabus dentatis nigris, fasciis duabus obscure fuscis latis aut angustis aut obsoletis, linea exterior duplicata denticulata nigra nonnunquam obsoleta, punctis marginalibus strigaque discali nigris; posticæ lineis duabus fuscescentibus subobsoletis.*

Male and female. Whitish. Fore legs with dark brown bands. Fore wings with two dentate black lines, one near the base, the other exterior; both often accompanied by two dark brown bands, which vary much in breadth; a more exterior double blackish denticulated line, which is often obsolete; marginal points black, arranged in pairs; discal streak black, sometimes contained in the exterior border. Hind wings with two diffuse and almost obsolete brownish lines, not lobate in the male. Length of the body 5—6 lines; of the wings 14—16 lines.

a. New York. Presented by E. Doubleday, Esq.

b. Nova Scotia. From Lieut. Redman's collection.

11. LOBOPHORA ? NIVIGERATA.

Fœm. *Cinerea, nigro conspersa; caput nigricans, vertice albo; palpi brevissimi; abdominis segmenta nigro cristata; alæ anticæ linea basali nigra, fasciis duabus nigrificantibus, 2a e lineis duabus dentatis, spatio marginali nigricante lineam submarginalem albidam angulosam includente, punctis marginalibus elongatis strigae discali nigris; posticæ albæ, basi sublobatæ.*

Female. Cinereous. Body and fore wings with minute black speckles. Head blackish; vertex white. Palpi very short. Abdomen with a small black crest on the hind border of each segment. Fore wings moderately elongated, with a black line near the base; interior band blackish, entire; exterior band formed of two dentate blackish lines; marginal space blackish, including the zigzag whitish submarginal line; marginal points black, elongated; discal streak transverse, black, in the exterior band. Hind wings white, with a brown interrupted marginal line; a small lobe at the base. Length of the body 5 lines; of the wings 14 lines.

a, b. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

12. LOBOPHORA ? INCOMMODATA.

Fœm. *Albido-cinerea; palpi brevissimi; thorax fascia maculari nigro-fusca; abdomen e punctis nigro-fuscis bilineatum; alæ anticæ subelongatæ, lineis nonnullis indistinctis denticulatis pallidissime cervinis, lineis tribus denticulatis lineaque submarginali nigrificantibus, striga discali atra.*

Female. Whitish cinereous. Palpi very short. Thorax with a macular blackish brown band. Abdomen with two rows of blackish brown points. Fore wings slightly elongated, with several indistinct denticulated very pale fawn-coloured lines; three blackish denticulated lines; second line broader than the first, intersected by the deep black discal streak; third mostly double, much interrupted; a still more incomplete blackish submarginal line; exterior border moderately oblique. Hind wings without markings. Length of the body 4 lines; of the wings 12 lines.

a. Nova Scotia. From Lieut. Redman's collection.

South America.

13. LOBOPHORA? QUADRISIGNATA.

Mas et fœm. *Albida; caput et thorax nigro guttata; palpi oblique ascendentes, nigro fasciati; alæ amplæ; anticæ elongatæ, lineis tribus fuscis dentatis duplicatis, lineis submarginali et marginali nigris rectis, venis albis nigro notatis, maculis duabus discalibus diffusis nigricantibus.*

Male and female. Whitish. Head with a black point on the vertex. Palpi obliquely ascending, banded with black, shorter than the breadth of the head. Thorax with a band of black dots in front and with a black dorsal dot. Wings ample. Fore wings elongated, with three double denticulated brown lines; submarginal and marginal lines black, straight; veins white, with numerous elongated black marks; two blackish diffuse discal spots, one interior, the other exterior; exterior border very oblique. Hind wings without markings. Length of the body 7 lines; of the wings 20 lines.

a. Bogota. From Mr. Stevens' collection.

b. New Grenada. From the collection of the Entomological Society.

Genus 13. THERA.

Corpus gracile. Proboscis tennis. Palpi incumbentes, rostriformes, peracuti, caput longe superantes; articulus 3us brevissimus. Antennæ maris pubescentes aut pectinatæ. Abdomen maris longum, gracile, alas posticas superans, valvulis apicalibus bene determinatis. Pedes longi; tibiæ posticæ quadricalcaratæ; metatarsus posticus incrassatus, elongatus. Alæ integræ; anticæ lineis paucis, spatio medio obscuriore; posticæ rotundatæ, vix lineatæ.

Dysstroma, Hubn. Verz. Schm. 333.

Thera, Steph. Ill. Brit. Haust. iii. 271; Curt.

Pelurga, p., Hubn. Verz. Schm. 334.

Chesias, p., Treit.; Dup.; Boisd.; Guen. Phal. ii. 370.

Melanthia, p., Boisd.

Larentia, p., Herr.-Sch.

Cidaria, p., Boisd.

Body slender. Proboscis slender. Palpi incumbent, rostriform, very acute, extending far beyond the head; third joint very small. Antennæ of the male pubescent or finely pectinated. Abdomen of the male long, slender, extending beyond the hind wings; apical valves much developed. Legs long; hind tibiæ with four moderately long spurs; hind tarsi with the first joint incrassated and almost as long as the tibia. Wings entire. Fore wings with but few lines, darker on the middle space than elsewhere. Hind wings rounded, moderately developed, almost without markings.

1. THERA CUPRESSATA.

Fusco-cinerea; alæ anticæ fascia media dentata abbreviata nigro-fusca.

Chesias cupressata, Dup. Lep. v. 511, pl. 206, f. 5. Treit. Schm. Sup. 2, 194.

Cidaria cupressata, Boisd. Ind. 213, 1751.

Dysstroma cupressata, Geyer, Schm. pl. 107, f. 563.

Larentia cupressata, Herr.-Sch. Eur. Schm. iii. 173, 191.

Thera cupressata, Guen. Phal. ii. 371, 1497.

South France.

2. THERA JUNIPERATA.

Pallide cinerea; alæ punctis marginalibus nigris; anticæ fuscescente tinctæ, fasciâ media subobscuriore e maculis transversis plagaque costali nigro marginatis.

Phalæna-Geometra juniperata, Linn. Faun. Suec. 1269; Syst. Nat. i. 2, 871, 261. Clerck, Icon. pl. 2, f. 8. Gmel. ed. Syst. Nat. i. 5, 2479, 261.

Geometra juniperata, Wien. Verz. 110, 29. Bork. Eur. Schm. v. 423, 208. Ill. N. Ausg. dess. i. 444, 29. Schr. Faun. Boic. ii. 2, 35, 1663. Hubn. Geom. pl. 57, f. 294. Frey. Beitr. pl. 108, f. 1.

Chesias juniperata, *Treit. Schm.* vi. 1, 336, 4. *Dup. Lep.* v. 505, pl. 206, f. 4. *Boisd. Ind.* 213, 1748.

Dysstroma juniperata, *Hubn. Verz. Schm.* 333, 3213.

Thera juniperata, *Steph. Ill. Brit. Haust.* iii. 272, 4, pl. 31, f. 2. *Guen. Phal.* ii. 371, 1498.

Larentia juniperata, *Herr.-Sch. Eur. Schm.* iii. 173, 193. *Delah. Schm.* 313.

a—i. England. From Mr. Stephens' collection.

j—o. England. From Mr. Chapman's collection.

p—r. England.

s. Europe. From M. Becker's collection.

3. THERA SIMULATA.

Cervino-cinerea; *alæ anticæ albido conspersæ, fuscescente subnebulosæ, basi fasciæque media antice dilatata cervinis albido marginatis.*

Geometra simulata, *Hubn. Geom.* f. 345.

Dysstroma simulata, *Hubn. Verz. Schm.* 333, 3212.

Thera coniferata, *Curt. Brit. Ent.* pl. 519. *Steph. Ill. Brit. Haust.* iv. 392.

Larentia simulata, *Herr.-Sch. Eur. Schm.* iii. 173, 194.

Larentia geneata, *Herr.-Sch. Eur. Schm.* iii. pl. 64, f. 396.

Chesias geneata, *Feisth. Ann. Soc. Ent. Fr.* 1834, 131, pl. 1.

Cidaria geneata, *Boisd. Ind.* 213, 1752.

Thera simulata, *Guen. Phal.* ii. 372, 1499.

a—w. England. From Mr. Stephens' collection.

x. England. From Mr. Foxcroft's collection.

y—ee. England.

4. THERA VARIATA.

Cinerea; *alæ linea submarginali albida; anticæ fasciis duabus fuscis nigro marginatis extus incisis, 2a antice dilatata punctum discalæ nigrum elongatum includente, punctis marginalibus nigris; posticæ linea media fusca flexa.*

Geometra variata, *Wien. Verz.* 110, 28. *Ill. N. Ausg. dess.* i. 443, 28. *Hubn. Geom.* pl. 57, f. 293. *Haw. Lep. Brit.* 327.

Phalæna fulvata, *Fabr. Ent. Syst.* iii. 2, 188, 215.

Phalæna variata, *Fabr. Sup.* 185.

Geometra pineolata, *Bork. Eur. Schm.* v. 373, 181.

Geometra munitata, *Haw. Lep. Brit.* 328.

Geometra obeliscata, *Hubn. Geom.* pl. 57, f. 296.

Chesias variata, *Treit. Schm.* vi. 1, 334, 3. *Dup. Lep.* v. 508, pl. 206, f. 3.

Cidaria variaria, *Boisd. Ind.* 213, 1749.

Chesias obeliscata, *Treit. Schm.* vi. 1, 338, 5.

Geometra tristrigaria, *Donov. Brit. Ins.* xiii. pl. 461, f. 2.

Dysstroma variata, *Hubn. Verz. Schm.* 333, 3211.

Pelurga obeliscata, *Hubn. Verz. Schm.* 335, 3225.

Geometra vitiosata, *Frey. Beitr.* i. pl. 60.

Thera variata, *Steph. Ill. Brit. Haust.* iv. 392. *Guen. Phal.* ii. 372, 1500.

Chesias obeliscata, *Dup. Lep.* v. 515, pl. 206, f. 8.

Thera fulvata, *Steph. Ill. Brit. Haust.* iii. 272, 3.

Cidaria simularia, *Boisd. Ind.* 213, 1754.

Melanthia stragulata, *Boisd. Ind.* 217, 1794. *Delah. Schm.* 312.

Larentia obeliscata, *Herr.-Sch. Eur. Schm.* iii. pl. 39, f. 240—212.

Larentia variata, *Herr.-Sch. Eur. Schm.* iii. 173, 192.

a—h. England. From Mr. Stephens' collection.

i, j. Scotland. From Mr. Stevens' collection.

k, l. Europe. From M. Becker's collection.

5. THERA FIRMATA.

Cervina; *alæ anticæ fascia saturatiore antice dilatata*; *posticæ cinereo-testaceæ*.

Geometra firmata, *Hubn. Geom.* pl. 100, f. 515.

Chesias firmata, *Treit. Schm. Sup.* 2, 198. *Boisd. Ind.* 213, 1755.

Dysstroma simulata, *Hubn. Verz. Schm.* 333, 3212.

Thera simulata, *Steph. Ill. Brit. Haust.* iii. 271, 1.

Larentia firmata, *Herr.-Sch. Eur. Schm.* iii. 171, 180, pl. 39, f. 237—239. *Delah. Schm.* 303.

Chesias ulicata, *Ramb. Ann. Soc. Ent. Fr.* 1834, 394, pl. 8, f. 7.

Boisd. Ind. 213, 1753. *Dup. Lep. Sup.* iv. 241, pl. 71, f. 3.

Cidaria ulicata, *Boisd. Ind.* 213, 1753.

Larentia ulicata, *Herr.-Sch. Eur. Schm.* iii. 171, 181, pl. 9, f. 49.

Thera firmata, *Guen. Phal.* ii. 375, 1501.

a, b. England. Presented by J. J. Reading, Esq.

c—h. England. From Mr. Stephens' collection.

i—k. England.

North America.

6. THERA CONGREGATA.

Fœm. Cinerea; alæ punctis marginalibus elongatis nigris; anticæ linea basali fasciisque duabus subvacuis nigricantibus, linea submarginali pallide cinerea denticulata nigricante subnebulosa, gutta discali nigra elongata; posticæ vix lineatæ.

Female. Cinereous. Palpi extending somewhat beyond the head. Wings with black elongated marginal points. Fore wings with a blackish line near the base, and with two blackish bands, which are very incomplete, but are concisely bordered on each side by an undulating line; submarginal line pale cinereous, denticulated, partly shaded with blackish; discal dot black, elongated. Hind wings with lines like those of the fore wings, but very indistinct. Length of the body 4 lines; of the wings 12 lines.

a. Newfoundland. Presented by W. C. St. John, Esq.

7. THERA? PERARCUATA.

Mas. Subfuscescente-cinerea; palpi caput vix superantes; alæ anticæ elongatæ, fusco subconspectæ, linea basali flexa dentata pallide fusca, linea exterior nigro-fusca bene determinata valde undulata, linea adhuc exterior e punctis nigricantibus, linea submarginali cinerea denticulata indistincta, striga discali punctisque marginalibus nigricantibus; posticæ cinereæ.

Male. Cinereous, slightly tinged with brown. Palpi hardly extending beyond the head. Fore wings elongate, slightly speckled with brown; a bent dentate pale brown line near the base, and a deeply curved blackish brown strongly marked exterior line, beyond which there is a line of blackish points on the veins; marginal space slightly brownish, including the indistinct cinereous denticulate submarginal line; marginal points blackish, in pairs; discal streak blackish, very near the inner side of the exterior line. Hind wings cinereous, without markings. Length of the body 6 lines; of the wings 16 lines.

United States. In Mr. Saunders' collection.

8. THERA? BITACTATA.

Mas. Sordide cinerea; palpi caput paullo superantes; antennæ vix pectinatæ; abdomen e punctis nigricantibus bivittatum;

alæ latiusculæ, nigricante subconspersæ, lunulis marginalibus nigris; anticæ fasciis duabus indeterminatis strigæque discali intermedia nigricantibus; posticæ puncto discali fusco.

Male. Dingy cinereous. Palpi extending a little beyond the head. Antennæ very slightly pectinated. Abdomen with two lines of blackish points. Wings rather broad, minutely blackish-speckled, with black marginal lunules. Fore wings with an incomplete interior blackish band, which is composed hindward of two irregular lines, and has beyond it a blackish transverse streak; a very incomplete exterior blackish band, which is composed of two costal spots and two discal points. Hind wings with a brown discal point, which is black on the under side. Length of the body 5 lines; of the wings 14 lines.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

Genus 14. POLYCLYSTA.

Corpus robustum. Palpi recti, acuti, oblique ascendentes, apice contigui. Antennæ filiformes, glabræ. Abdomen læve, apice conicum, fœm. apicem versus incrassatum. Pedes læves. Alæ spissæ, læves, amplæ; anticæ lineato-fasciatæ, punctis marginalibus duplicatis; posticæ valde rotundatæ.

Polycysta, Guen. Phal. ii. 375.

Body robust. Palpi straight, acute, obliquely ascending, contiguous at the tips, extending beyond the head. Antennæ filiform and smooth in both sexes. Abdomen smooth, without markings, conical at the tip in both sexes, incrassated near the tip in the female. Legs smooth, not incrassated. Wings dense, smooth, ample. Fore wings with bands of lines, and with double marginal points. Hind wings much rounded, without markings above, with curved lines beneath.

1. POLYCLYSTA HYPOGRAMMATA.

Fuscescens; alæ anticæ viridescens, nigro conspersæ, fasciis quatuor fuscis, 1a 2a 3a que parallelis obliquis, 3a 4a que postice approximatis, linea submarginali fusca undulata, puncto discali strigæque apicali nigris; posticæ fusæ, basi lutescentes, linea media nigricante, fimbria pallida.

Polycysta hypogrammata, Guen. Phal. ii. 376, 1502, pl. 22, f. 4.
Australia.

Genus 15. YPSIPETES.

Corpus sat gracile. Proboscis bene determinata. Palpi porrecti, compressi, contigui, rostriformes, caput sat superantes; articulus 3us parvus, conicus. Antennæ filiformes, maris crassæ velutinæ. Abdomen sat crassum; fasciculus apicalis maris magnus, quadratus. Pedes læves, sat validi; tibiæ posticæ quadricaratae. Alæ integræ, densæ, velutinæ; anticæ oblongæ, strigatæ, subfasciatæ, apice subquadratae; posticæ discolores, lituris vix ullis.

Hydriomena, *Hubn. Verz. Schm.* 322.

Acidalia, p., *Treit.*

Euthalia, *Steph. Ill. Brit. Haust.* iii. 252.

Ypsipetes (*Steph. olim.*), *Guen. Phal.* ii. 376.

Cidaria, p., *Boisd.*

Larentia, p., *Herr.-Sch.*

Body rather slender. Proboscis well developed. Palpi porrect, compressed, contiguous, rostriform, extending rather far beyond the head; third joint conical, minute. Antennæ filiform in both sexes, thickened and velvety in the male. Abdomen rather robust; that of the male with a large quadrate apical tuft. Legs smooth, rather stout; hind tibiæ with four moderately long spurs. Wings entire, stout, velvety. Fore wings oblong, subquadrate at the tips, streaked; markings rather of bands than of lines; exterior border convex. Hind wings silky, almost without markings, differing in colour from the fore wings.

1. YPSIPETES LITERATA.

Cinereo-fusca; alæ anticæ olivaceo subtinctæ, fasciis tribus aut quatuor cervinis nigro marginatis nonnunquam fuscis aut subobsoletis, striga discali punctisque marginalibus nigris; posticæ fuscescente-cinereæ.

Geometra literata, *Donov. Brit. Ins.* xiv. 80, pl. 499, f. 2.

Geometra impluviata, var. ? *Haw. Lep. Brit.* 322.

Geometra ruberata, *Frey. Beitr.* i. pl. 36, f. 2.

Larentia ruberata, *Herr.-Sch. Eur. Schm.* iii. 168, 172, pl. 34, f. 209, 210.

Ypsipetes literata, *Guen. Phal.* ii. 377, 1503.

a—d. England. Presented by W. F. Walcott, Esq.

e—l. England. From Mr. Stephens' collection.

m. Scotland. From Mr. Foxcroft's collection.

n—r. England.

2. YPSIPETES IMPLUVIATA.

Subolivaceo-cinerea; alæ anticæ fasciis duabus saturatioribus fuscescente interfasciatis nigro marginatis, linea basali strigaeque discali nigris; posticæ fuscescente-cinereæ.

Geometra impluviata, *Wien. Verz.* 109, 5. *Sepp. Schm.* ii. pl. 5, f. 1—8. *Ill. N. Ausg. dess.* i. 434, 5. *Hubn. Geom.* pl. 43, f. 223. *Haw. Lep. Brit.* 321.

Geometra trifasciata, *Bork. Eur. Schm.* v. 308, 141.

Geometra tricolorata? *Schr. Faun. Boic.* 1655.

Acidalia impluviata, *Treit. Schm.* vi. 2, 21, 14. *Dup. Lep.* v. 424, pl. 200, f. 3.

Hydriomena impluviata, *Hubn. Verz. Schm.* 322, 3106.

Euthalia impluviata, *Steph. Ill. Brit. Haust.* iii. 254, 3.

Cidaria impluviata, *Boisd. Ind.* 214, 1767.

Larentia impluviata, *Herr.-Sch. Eur. Schm.* iii. 168, 171, pl. 31, f. 193. *Delah. Schm.* 295.

Ypsipetes impluviata, *Guen. Phal.* ii. 377, 1504.

a—c. England. Presented by F. Bond, Esq.

d—l. England. From Mr. Stephens' collection.

3. YPSIPETES ELUTATA.

Olivaceo-viridis; alæ anticæ punctis, strigis transversis fasciisque nigricantibus, plaga submarginali albida; posticæ cinereæ.

———, *Albin, Ins.* pl. 44, f. 73. *Wilk. Pap.* pl. 91.

Geometra sordidata, *Fabr. Ent. Syst.* iii. 205, 2.

Geometra elutata, *Hubn. Geom.* pl. 43, f. 224; pl. 74, f. 381—384. *Haw. Lep. Brit.* 321.

Acidalia elutata, *Treit. Schm.* vi. 2, 20, 13. *Dup. Lep.* v. 426, pl. 200, f. 1, 2.

Hydriomena elutata, *Hubn. Verz. Schm.* 322, 3107.

Euthalia elutata, *Steph. Ill. Brit. Haust.* iii. 254, 4.

Cidaria elutata, *Boisd. Ind.* 214, 1766.

Larentia elutata, *Herr.-Sch. Eur. Schm.* iii. 168, 173. *Delah. Schm.* 297.

Ypsipetes elutata, *Guen. Phal.* ii. 378, 1506.

a—x. England. From Mr. Stephens' collection.

y—bb. England.

cc—ff. Europe. From M. Becker's collection.

North America.

4. YPSIPETES PLUVIATA.

Subolivaceo-cinerea; palpi nigri, alæ anticæ cervino ex parte tinctæ, lineis tribus denticulatis flexis lineola discali strigisque duabus subapicalibus nigris, fascia interiore informi linea submarginali undulata strigulisque marginalibus nigricantibus; posticæ cinereæ, lineis duabus arcuatis indistinctis fuscescentibus, linea marginali fusca.

Ypsipetes pluvata, Guen. *Phal.* ii. 378, 1505.

a. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

b, c. New York. Presented by E. Doubleday, Esq.

d. East Florida. Presented by E. Doubleday, Esq.

5. YPSIPETES? IMMERSATA.

Mas et fœm. *Cinereo-cervina, olivaceo subtineta; palpi caput perpaullo superantes; alæ nigro conspersæ, fusco strigatæ, linea exterior e punctis nigris extus albo marginatis, punctis marginalibus nigricantibus elongatis; anticæ linea interiore e punctis nigris, fascia media fuscescente, lituris exterioribus albis.*

Male and female. Cinereous fawn-colour, with a slight olive-green tinge. Palpi extending very little beyond the head. Wings minutely black-speckled and transversely brown-streaked; an exterior line of black points, which are bordered with white on the outer side; marginal points blackish, elongated. Fore wings with an interior line of black points; a brownish band along the inner side of the exterior line, whose white marks are more or less dilated in front. Length of the body 5 lines; of the wings 14 lines.

a, b. New York. Presented by E. Doubleday, Esq.

South America.

6. YPSIPETES? IMPROMISSATA.

Fœm. *Pallide fuscescens; caput pallidum; palpi caput non superantes; antennæ sat validæ; alæ anticæ nigro subconsersæ, lineis quatuor dentatis nigris ex parte nigricante nebulosis, fasciis tribus deviis pallide olivaceis, linea submarginali pallida denticulata, puncto discali parvo; posticæ fuscescente-cinereæ, lineis subobsoletis.*

Female. Pale brownish. Head paler. Palpi not extending beyond the head. Antennæ rather stout. Fore wings thinly and minutely black-speckled, with four dentate black lines, of which the first, second and third are partly blackish, shaded on the inner side; three irregular pale olivaceous bands, of which the third is very incomplete hindward; submarginal line pale, denticulated; discal point black, minute, in the second band. Hind wings brownish cinereous, with an elongated blackish discal point and an almost obsolete exterior line. Length of the body 4 lines; of the wings 12 lines.

a. Monte Video. Presented by C. Darwin, Esq.

Africa.

7. YPSIPETES RUDISARIA.

Mas. *Fuscescens*; *caput pallidum*; *palpi caput paullo superantes*; *alæ anticæ nigro conspersæ, fasciis tribus subobscurioribus denticulatis nigro marginatis, 2a 3aque nigro interlineatis, macula submarginali nigricante, puncto discali nigro elongato*; *posticæ fuscescente-cinereæ, fasciis subobsoletis.*

Male. Brownish. Head pale. Palpi extending a little beyond the head. Fore wings black-speckled, with three slightly darker bands, which are bordered by denticulated black lines; first band near the base; second and third interlined with black; a large blackish spot in the disk beyond the third band; discal point black, elongated. Hind wings brownish cinereous, with almost obsolete bands. Length of the body 4 lines; of the wings 12 lines.

Cape. In Mr. Saunders' collection.

Asia.

8. YPSIPETES? IMBRATA.

Mas. *Pistacino-viridis*; *abdomen fuscum, robustum, guttis dorsalibus viridibus*; *alæ sericeæ*; *anticæ spatiis basali et medio nigro-fuscis albo marginatis, margine exteriori nigro-fusco*; *posticæ rufescente-fuscæ.*

Ypsipetes? imbrata, Guen. Phal. ii. 380, 1507.

North Hindostan.

Genus 16. MELANTHIA.

Corpus gracile. Proboscis bene determinata. Palpi porrecti, bicolores, caput perpaullo superantes; articulus 3us minimus. Antennæ breves, maris vix pubescentes. Thorax convexus, postice cristatus. Abdomen alas posticas non superans. Pedes læves, vix graciles; calcaria quatuor longa. Alæ integræ, spissæ, albæ, lituris paucis, fimbria brevi.

Zerene, p., *Treit.*; *Curt.*; *Steph.*

Cidaria, p., *Treit.*

Mesoleuca, Cosmorhoe et Plemymia, *Hubn. Verz. Schm.* 326, 327.

Harpalyce, p., *Steph.*

Melanthia, *Dup. Lep.* iv. 111; *Boisd.*; *Guen. Phal.* ii. 380.

Larentia, p., *Herr.-Sch.*

Body slender. Proboscis well developed. Palpi porrect, of two colours, extending very little beyond the head; third joint very short. Antennæ short, hardly pubescent in the male. Thorax convex, with a squamous crest on its hind border. Abdomen not extending beyond the hind wings. Legs smooth, hardly slender; hind tibiæ with four long spurs. Wings entire, dense, white, satiny, with but few lines; fringe short.

Europe.

1. MELANTHIA RUBIGINATA.

Alba; caput et thorax obscure ochracea; alæ margine exteriori cinereo lineam submarginalem albam denticulatam includente; anticæ basi fasciæque plus minusve abbreviata aut interrupta guttam discalem nigricantem includente obscure ochraceis, plaga subapicali fusca.

———, *Deg. Ins.* ii. 355, pl. 6, f. 2. *DeVill. Ent. Linn.* ii. 321, 461.

Geometra rubiginata, *Wien. Verz.* 114, 5. *Bork. Eur. Schm.* v. 441, 217. *Hubn. Geom.* pl. 48, f. 250. *Haw. Lep. Brit.* 338. *Frey. Beitr.* ii. pl. 102.

Phalæna-Geometra rubiginata, *Gmel. ed. Syst. Nat.* i. 5, 2474, 716.

Phalæna bicolorata, *Berl. Mag.* iv. 6, 608, 73.

Geometra contaminata, *Naturf.* xi. 86, 91.

Geometra alstrœmeriana, *Sulz. Gesch.* pl. 23, f. 5.

Phalæna rubiginata, *Fabr. Mant. Ins.* ii. 205, 170; *Ent. Syst.* iii. 2, 186, 208.

Zerene rubiginata, *Treit. Schm.* vi. 2, 223.

- Plemyria rubiginata*, *Hubn. Verz. Schm.* 327, 3159.
Zerene rubiginata, *Dup. Lep.* v. 261, pl. 188, f. 5. *Steph. Ill. Brit. Haust.* iii. 251.
Larentia rubiginata, *Herr.-Sch. Eur. Schm.* iii. 155, 121. *Delah. Schm.* 257.
Melanthia rubiginata, *Boisd. Ind.* 217, 1800. *Guen. Phal.* ii. 381, 1508.
Zerene plumbata, *Curt. Brit. Ent.* pl. 643. *Steph. Ill. Brit. Haust.* iii. 251, 5.
a—l. England. From Mr. Stephens' collection.
m—p. Scotland. From Mr. Dove's collection.
q, r. England.
s. Europe. From M. Becker's collection.

2. MELANTHIA OCELLATA.

Alba ; caput et thorax fusca ; abdomen guttis nigris bilineatum ; alæ vix lineatæ, margine exteriori cinerascens ; anticæ basi fasciaque media nigro-fuscis cyanescente tinctis, macula discali angulata guttaque submarginali atris.

- *Deg. Ins.* ii. 351, pl. 5, f. 13? *DeVill. Ent. Linn.* ii. 348, 534 ; 364, 572 ; 373, 598.
Phalæna-Geometra ocellata, *Linn. Syst. Nat.* i. 2, 870, 258 ; *Faun. Suec.* 1280. *Gmel. ed. Syst. Nat.* i. 5, 2478, 258.
Phalæna ocellata, *Fuessl. Schw. Ins.* 41, 789. *Mull. Faun. Frid.* 50, 442 ; *Zool. Dan.* 128, 1472.
Geometra ocellata, *Wien. Verz.* 113, 9. *Brahm, Ins. Kal.* ii. 497, 355. *Schr. Faun. Boic.* ii. 2, 40, 1673. *Bork. Eur. Schm.* v. 390, 191. *Ill. N. Ausg. dess.* i. 454, 9. *Hubn. Geom.* pl. 48, f. 252. *Haw. Lep. Brit.* 331.
Phalæna lynceata, *Fabr. Ent. Syst.* iii. 2, 189, 217.
Geometra lynceata, *Donov. Brit. Ins.* x. pl. 349, f. 3.
Geometra fasciata, *Scop. Ent. Carn.* 221, 550.
Geometra tridentata, *Hufn. Berl. Mag.* iv. 6, 618, 100.
Cidaria ocellata, *Treit. Schm.* vi. 2, 153.
Cosmorhoe ocellata, *Hubn. Verz. Schm.* 326, 3155.
Melanthia ocellata, *Dup. Lep.* v. 271, pl. 189, f. 1. *Boisd. Ind.* 217, 1792. *Guen. Phal.* ii. 382, 1509.
Harpalyce ocellata, *Steph. Ill. Brit. Haust.* iii. 222, 2.
Larentia ocellata, *Herr.-Sch. Eur. Schm.* iii. 93, 147. *Delah. Schm.* 233.

- a—m.* England. From Mr. Stephens' collection.
n. England. From Mr. Stevens' collection.
o—q. Scotland. From Mr. Dove's collection.
r. Scotland. From Mr. Foxcroft's collection.
s. Ireland. From Mr. Bouchard's collection.
t—y. England.
z—bb. Europe. From M. Becker's collection.

3. MELANTHIA ALBICILLATA.

Ferruginea ; abdomen albidum, basi ferrugineum ; alæ albæ, cinereo marginatæ ; anticæ basi ferrugineæ chalybeo lineatæ, plaga costali lineaque denticulata postice dilatata ferrugineis.

———, *De Vill. Ent. Linn.* ii. 346, 531.

Phalæna-Geometra albicillata, *Linn. Syst. Nat.* i. 2, 870, 255 ; *Faun. Suec.* 1278. *Clerck, Icon.* pl. 1, f. 12. *Gmel. ed. Syst. Nat.* i. 5, 2478, 255.

Phalæna albicillata, *Fabr. Sp. Ins.* ii. 260, 105 ; *Mant. Ins.* ii. 203, 155 ; *Ent. Syst.* iii. 2, 182, 190.

Geometra albicillata, *Wien. Verz.* 114, 8. *Bork. Eur. Schm.* v. 451, 223. *Knoch, Beitr.* i. 40, 1, pl. 2, f. 8. *Schr. Faun. Boic.* ii. 2, 48, 1682. *Ill. N. Ausg. dess.* i. 465, 8. *Hubn. Geom.* pl. 15, f. 76. *Donov. Brit. Ins.* vi. pl. 202, f. 1. *Haw. Lep. Brit.* 337. *Frey. Beitr.* pl. 96. *Sepp. Schm.* vi. pl. 48.

Zerene albicillata, *Treit. Schm.* vi. 2, 228, 7.

Mesoleuca albicillata, *Hubn. Verz. Schm.* 326, 3148.

Melanthia albicillata, *Dup. Lep.* v. 254, pl. 188, f. 4. *Boisd. Ind.* 217, 1803. *Guen. Phal.* ii. 382, 1510.

Zerene albicillata, *Steph. Ill. Brit. Haust.* iii. 249, 1.

Larentia albicillata, *Herr.-Sch. Eur. Schm.* iii. 119, 154. *Delah. Schm.* 255.

a. England. Presented by Edwin Shepherd, Esq.

b—l. England. From Mr. Stephens' collection.

m, n. England.

o, p. Europe. From M. Becker's collection.

North America.

4. MELANTHIA RUFICILLATA.

Alba ; caput et thorax nigro-cinerea ; alæ lineis duabus exterioribus denticulatis nigro-cinereis, margine exteriori cervino ;

anticæ puncto discali nigro, basi plagaque costali subapicali nigro-cinereis interlineatis.

Melanthia ruficillata, Guen. *Phal.* ii. 382, 1511.

a—g. Trenton Falls, New York. Presented by E. Doubleday, Esq.
h, i. St. Martin's Falls, Albany River, Hudson's Bay. Presented by Dr. Barnston.

j. Nova Scotia. From Lieut. Redman's collection.

k, l. Orilla, West Canada. From Mr. Bush's collection.

5. MELANTHIA CONDENSATA.

Alba; caput et thorax fusca; alæ lineis duabus exterioribus subinterruptis fuscis; anticæ basi fuscae, fascia exteriora postice subinterrupta lineaque submarginali denticulata fuscis, puncto discali nigro sat magno.

White. Head and thorax brown. Wings with two exterior irregular and interrupted brown lines. Fore wings obliquely brown towards the base, and with a broad brown band, which hardly extends to the interior border and is between the exterior lines and a denticulated brown submarginal line; discal point black, rather large. Length of the body 4 lines; of the wings 12 lines.

a. New York. Presented by E. Doubleday, Esq.

6. MELANTHIA GRATULATA.

Mas. Alba; corpus cinereo-nigrum; alæ basi, fascia exteriora interrupta intus undulata fasciæque marginali nigricante-cinereis.

Female. White. Body cinereous-black. Palpi extending rather beyond the head. Abdomen white at the tip. Wings cinereous-black towards the base; the outline of this hue is quadrate exteriorly and truncate hindward, and is close to the base in the hind wings; a cinereous-black exterior band, which is undulating on the interior side and is interrupted in the middle, and is partly connected with a blackish cinereous marginal band. Length of the body 4 lines; of the wings 12 lines.

a. Vancouver's Island. Presented by Dr. Lyall.

Country unknown.

7. MELANTHIA EFFERATA.

Sordide alba; corpus cinereo-nigrum; alæ linea interiore e punctis nigricantibus; anticæ basi, macula costali fasciaque exteriori lata cinereo-nigris, punctis marginalibus nigris; posticæ vix lineatæ, lunulis marginalibus attenuatis nigris.

Dingy white. Body cinereous-black. Palpi extending rather beyond the head. Wings with an interior line of blackish points. Fore wings cinereous-black towards the base, with a middle costal spot and a broad irregular exterior band of the same hue; submarginal line cinereous, dentate, incomplete; marginal points black. Hind wings with some traces of markings, which are most distinct on the interior border; marginal lunules black, slender. Length of the body 4 lines; of the wings 12 lines.

a. ———?

Genus 17. SCORDYLIA.

Corpus sat gracile. Frons squamosa, non producta. Proboscis mediocris. Palpi læves, squamosi, rostriformes, acuti, caput superantes, apice contigui; articulus 3us distinctus, conicus. Antennæ breves, cylindricæ, glabræ. Thorax globosus. Abdomen breve, apice acutum. Pedes læves, vix robusti; calcaria quatuor longa. Alæ spissæ, integræ, concolores, lituris non diversis, fimbria brevi.

Scordylia, Guen. Phal. ii. 383.

Body rather slender. Front squamous, not prominent. Proboscis moderately long. Palpi smoothly squamous, acutely rostriform, extending beyond the head, contiguous or slightly crossed at the tips; third joint distinct, conical. Antennæ short, cylindrical, smooth. Thorax globose. Abdomen short, acute at the tip; sutures paler. Legs smooth, hardly stout; hind tibiæ with four long spurs. Wings dense, entire, alike in colour and with like markings; ground hue black; fringe short.

Mexico and South America.

The following species form four groups, of which the third and fourth are very aberrant from the typical structure, and may be separated from *Scordylia*.

Group 1.

1. SCORDYLIA ATALANTATA.

Rufescente-cinerea; alæ atræ, fimbria albido notata; anticæ dimidio basali luteo, costa basali rubro cinereo varia, gutta exteriori costali elongata albida; posticæ vittis duabus luteis, subtus cervino-cinereæ, rubro variæ. Var.—Alæ anticæ gutta costali lutea.

Scordylia Atalantata, Guen. *Phal.* ii. 383, 1512.

Brazil.

a, b. Venezuela. From Mr. Dyson's collection.

c. Bogota. From Mr. Stevens' collection.

2. SCORDYLIA QUADRUPLICARIA.

Nigra; alæ anticæ vittis duabus basalibus, fascia media obliqua postice abbreviata, gutta postica guttaque costali luteis, costa basali rubra flavesciente varia; posticæ luteo bivittatæ, subtus cervino-albidæ, ferrugineo variæ.

Heterusia quadruplicaria (*Geometra ampla*, *Chleuastes nobilis*), Geyer, *Samml. Exot. Schmett.* iv. 7, 302, f. 603, 604.

Scordylia quadruplicaria, Guen. *Phal.* ii. 384, 1513.

Rio Grande.

a—e. Brazil.

3. SCORDYLIA DISCORDATA.

Mas. *Nigro-fusca; abdomen fere unicolor; alæ basi pallidiores, fascia obliqua lata lutea; anticæ trigonæ, apice productæ, margine exteriori recto; posticæ subtus sordide ochraceo-cinereæ, fusco strigatæ.*

Scordylia discoidata, Guen. *Phal.* ii. 384, 1514.

Valparaiso.

4. SCORDYLIA PARTITATA.

Nigra; abdominis segmenta pallido marginata; alæ disco luteæ, fimbria pallida nigro notata; anticæ guttis costalibus luteis; posticæ subtus albidæ, cervino variæ, nigricante marginatæ.

Scordylia partitata, Guen. *Phal.* ii. 384, 1515.

Brazil.

a, b. Venezuela. From Mr. Dyson's collection.

5. SCORDYLIA CONDUPLICARIA.

Nigro-fusca; alæ punctis marginalibus albis; anticæ dimidio basali fusco conspersæ, macula rotunda media postica guttisque tribus costalibus flavescente-albis; posticæ fascia latissima flavescente-alba.

Heterusia conduplicaria (*Geometra ampla*, *Chleuastes vulgaris*), Hubn. *Samml. Exot. Schm.* iii. 18, 230, f. 459, 460.

Scordylia conduplicaria, Guen. *Phal.* ii. 385, 1517.

Scordylia basilata, Guen. *Phal.* ii. 385, 1516, pl. 14, f. 3.

Rio Janeiro.

6. SCORDYLIA INVEXARIA.

Fœm. Nigra; alæ fimbria albo notata; anticæ lituris costalibus attenuatis maculaque maxima elongata postica albis, subtus basi albæ nigro conspersæ, costa media subtus rubra, apice subtus cervino; posticæ dimidio basali albo, puncto discali nigro, subtus albæ nigro conspersæ fascia submarginali fusca excavata.

Female. Black. Nearly allied to *S. conduplicaria*. Wings with white marks along the fringe. Fore wings with long slender white costal marks; an elongated and very large white spot extending along the interior border and quite different in form from the corresponding spot of *S. conduplicaria*; under side white, with black speckles towards the base, dark red along the middle part of the costa, fawn-colour towards the tips. Hind wings white from the base to beyond the black elongated and somewhat large discal point; under side white, with black speckles, and with a brown much excavated submarginal band. Length of the body 4 lines; of the wings 12 lines.

a. Bogota, New Grenada. From Mr. Stevens' collection.

b. Bogota, New Grenada. From the Entomological Society's collection.

7. SCORDYLIA UNANIMARIA.

Fœm. Nigra, S. invexariæ affinis; alæ anticæ punctis duobus costalibus trigonis maculaque postica elongata albis, subtus basi albæ nigro conspersæ; posticæ albæ, margine lato nigro.

Female. Black. Nearly allied to the preceding species. Fore wings with two white triangular costal points; interior border with a large elongated white spot, which is narrower and has a more diffuse outline than that of *S. invexaria*; under side with the points and the spot much larger, white, with black speckles towards the base. Hind wings white, with a broad black border; under side with a few black speckles towards the base. Length of the body $4\frac{1}{2}$ lines; of the wings 13 lines.

a. Cuenca. Province of Equador. From Mr. Fraser's collection.

8. SCORDYLIA HUMERARIA.

Ferruginea-nigra; abdominis segmenta pallido marginata; alæ dimidio basali pallide luteæ, basi fusco conspersæ, fimbria albedo punctata; anticæ costa basi dilatata fusco bimaculata apice albido tripunctata; posticæ striga postica angulata atomisque apud marginem interiorem fuscis.

Male and female. Ferruginous-black. Allied to *S. partitata*. Abdominal segments with pale hind borders. Wings pale luteous on half the surface from the base, which is speckled with brown; fringe with whitish points. Fore wings with three whitish points towards the tip of the costa, which is dilated and has two subquadrate brown spots near the base. Hind wings with brown speckles along the interior border, from whence an angular brown streak proceeds towards the disk, and is parallel to the exterior dark hue; under side with large brown speckles on the pale part. Length of the body $3\frac{1}{2}$ lines; of the wings 10 lines.

a—c. Bolivia. From Mr. Bridges' collection.

9. SCORDYLIA PERFECTARIA.

Fœm. Læte lutea, S. partitatæ affinis; corpus obscure ochraceum; abdominis segmenta pallido marginata; alæ anticæ dimidio exteriori nigro, punctis costalibus elongatis pallidis, costa basi convexa bimaculata subtus albida nigro et cervino varia, apice subtus ferrugineo; posticæ fascia marginali postice attenuata, subtus albidæ fusco et cervino strigatæ.

Female. Bright luteous. Allied to *S. partitata*. Body dull ochraceous. Abdominal segments with pale hind borders. Fore wings with the exterior half black; costa with pale elongated points, convex towards the base, where there are two incomplete quadrate darker spots; costa beneath whitish, and marked with

black and with pale fawn-colour; tips beneath ferruginous. Hind wings with a black marginal band, which is broad in front, and is very slender towards the interior border; the latter has a minute black forked mark near its tip; under side whitish, streaked with brown and with pale fawn-colour. Length of the body 4 lines; of the wings 11 lines.

a. Mexico. From M. Sallé's collection.

Group 2.

10. SCORDYLIA HESPERIARIA.

Fœm. *Nigra; alæ fimbria albido notata; anticæ fascia obliqua alba e maculis duabus elongatis, gutta costali subapicali alba; posticæ macula discali magna angulata alba.*

Female. Black. Wings with some whitish marks on the fringe. Fore wings with an incomplete oblique white band, which is formed of two elongated white spots, of which the hind one is larger than the other, and is intersected by a black vein; a white costal dot towards the tip. Hind wings with a large white discal spot, which extends to the interior border, and has an angular outline. Length of the body 4 lines; of the wings 12 lines.

a. Bogota. From Mr. Stevens' collection.

11. SCORDYLIA SUBJUNCTARIA.

Fœm. *Nigra; alæ fimbria albo guttata; anticæ striga obliqua discali e maculis duabus elongatis guttaque costali subapicali albis, fasciis subtus duabus obliquis albis; posticæ macula discali magna elongata informi alba subtus lineolam arcuatam emittente.*

Female. Black. Wings with distinct white dots on the fringe. Fore wings with two oblique white discal spots, which form an oblique streak, being nearly contiguous to each other; a white dot near the tip of the costa; under side with two white oblique bands. Hind wings with a large elongate irregular white discal spot, which on the under side emits a curved irregular white line. Length of the border 4 lines; of the wings 12 lines.

a, b. Bolivia. From Mr. Bridges' collection.

12. SCORDYLIA MENDACIARIA.

Fœm. *Nigra; alæ anticæ fascia obliqua antice attenuata postice abbreviata liturisque tribus transversis costalibus albis; posticæ albæ, nigro marginatæ, subtus nigro conspersæ.*

Female. Black. Fore wings with a white oblique band, which is much attenuated towards the costa, and is much abbreviated towards the interior angle, and is intersected by a black vein; costa with three transverse white marks. Hind wings white, with a black border, which is broadest along the outer part of the costa; fringe white-tipped along the fore part of the exterior border; under side slightly dingy, minutely black-speckled. Length of the body 4—5 lines; of the wings 12—14 lines.

a, b. Bogota. From Mr. Stevens' collection.

13. SCORDYLIA DEPRIVATA.

Fœm. *Nigra; pectus anticum albidum; alæ anticæ strigis costalibus attenuatis albis, costa basi dilatata subtus cervina; posticæ macula magna discali alba.*

Male and female. Black. Palpi beneath and pectus in front whitish. Fore wings with some white slender streaks along the costa; the latter is fawn-coloured beneath towards the base, which is dilated. Hind wings with a large white discal spot. Length of the body 5 lines; of the wings 14 lines.

a. Bolivia. From Mr. Bridges' collection.

Group 3.

14. SCORDYLIA? QUADRATARIA.

Mas et fœm. *Pallide lutea; palpi caput non superantes; alæ nigricante subconsperse, linea interiore e guttis dimidioque exteriori ferrugineo-fuscis, fascia subtus lata marginali ferrugineo-fusca antice maculata postice interrupta.*

Male and female. Pale luteous, with some tinges of brighter luteous. Palpi short and slender, not extending beyond the head. Wings thinly and minutely blackish-speckled; an interior line of ferruginous-brown dots; exterior part ferruginous-brown, occupying nearly half the surface of the fore wings and the tips of the hind wings; under side with a broad marginal ferruginous-brown band, which contains a transverse luteous spot in the fore wings, and is widely interrupted in the hind wings. Length of the body 3—3½ lines; of the wings 10 lines.

a, b. Ega. From Mr. Bates' collection.

Group 4.

15. SCORDYLIA ? BASALIARIA.

Mas. *Rufescente-fusca; palpi caput sat superantes, articulo 3o lineari obtuso; antennæ setulosæ; abdomen basi pallide luteum; alæ basi pallide luteæ; posticæ subtus pallide luteæ, litura transversa discali fasciaque marginali rufescente-fuscis.*

Male. Reddish brown. Palpi extending rather far beyond the head; third joint linear, obtuse. Antennæ setulose. Abdomen pale luteous at the base. Wings towards the base pale luteous; this hue occupies more than one-third of the surface of the fore wings and only the base of the hind wings. Hind wings beneath pale luteous; transverse discal streak and marginal band reddish brown. Length of the body 3 lines; of the wings 10 lines.

a. Ega. From Mr. Bates' collection.

Country unknown.

The two following species belong to the second of the preceding groups.

16. SCORDYLIA CONFLICTARIA.

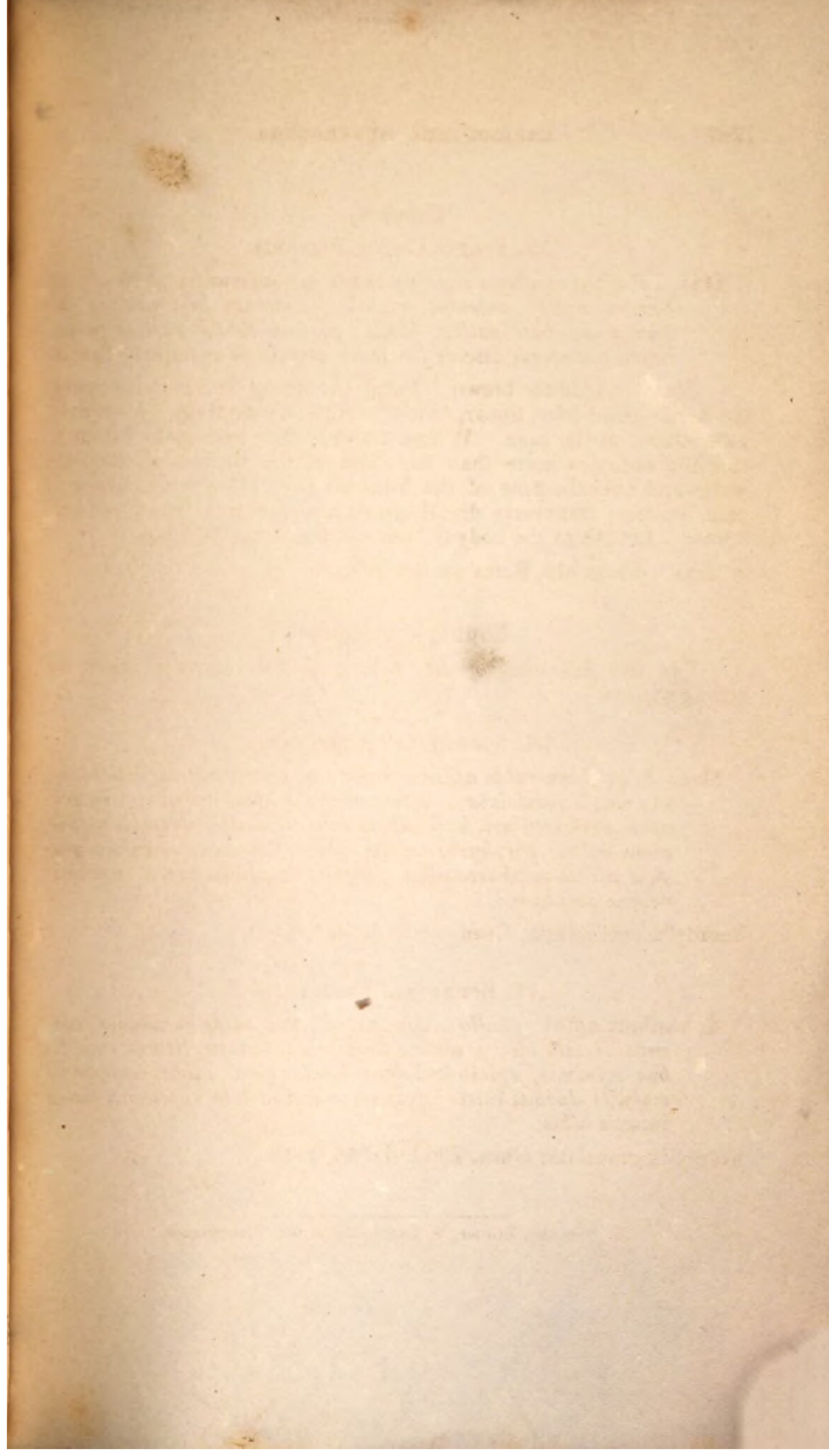
Mas. *S. basilatæ valde affinis, major; abdomen sulphureo-album; alæ magis rotundatæ; anticæ macula apud marginem interiorem semicirculari, basi subtus sulphureo-albæ strigulis nigris, costa subtus porphyria, apice subtus flavescente-carneo; posticæ subtus sulphureo-albæ strigulis basalibus nigris et exterioribus porphyris.*

Scordylia conflictaria, Guen. Phal. ii. 385, 1518.

17. SCORDYLIA GRATULATA.

S. basilatæ affinis, paullo minor, nigra; alæ valde rotundata, macula discali alba; anticæ apice valde obtusæ, lituris costalibus minimis, apicibus subtus luteis, costa subtus rufescente maculis duabus luteis; posticæ margine lato rufescente-fusco punctis albis.

Scordylia gratulata, Guen. Phal. ii. 386, 1519.





Walker, Francis

List of the specimens of Lepidopterous Insects in the Collection of the
British Museum

Bd.: XXIV

London 1862

Zool. 543 br-24

urn:nbn:de:bvb:12-bsb10309212-2